

Service Manual

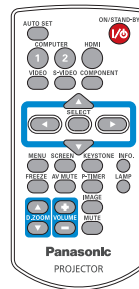
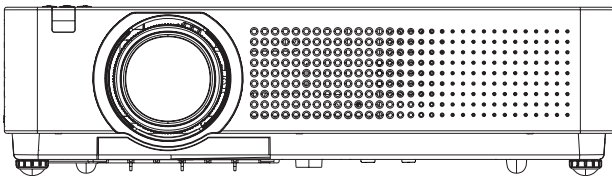
LCD Projector

Model No.

PT-VX400U

PT-VX400E

PT-VX400EA



Contents

Contents	2	Schematic Diagrams	A1
Safety Instructions	3	Printed Wiring Board Drawings.....	A7
Safety precautions	4		
Specifications	5		
Circuit Protections	7		
Thermal fuse (SW902)	7		
Lamp cover switch (SW901)	7		
Fuse (F601)	7		
Warning temperature and power failure protection.....	8		
Maintenance	9		
Maintenance	9		
Replacing the unit.....	9		
Replacing the lamp unit.....	12		
Warning message on the non-standard lamp used..	13		
Cleaning	14		
Cleaning the projection lens	14		
Cleaning the projector cabinet.....	14		
Security Function Notice.....	15		
Resetting procedure	15		
Standby Mode Notice	16		
Mechanical Disassembly	17		
Optical Parts Disassembly.....	23		
Servicing Notice	28		
Note on main board replacement	28		
Adjustments.....	29		
Optical Adjustments.....	30		
Contrast adjustment.....	30		
Optical center adjustment.....	31		
Electrical Adjustments	34		
Service adjustment menu operation	34		
Circuit adjustments	35		
Test points and locations	39		
Service adjustment data	40		
Chassis Block Diagrams.....	57		
Chassis over view	57		
System control	58		
Lamp control.....	59		
Audio circuit	60		
Power supply & protection circuit.....	61		
Fan control circuit	62		
Troubleshooting	63		
Indicators and projector condition.....	63		
No power	64		
No picture	65		
No sound	66		
Control Port Functions.....	67		
Scaler I/O port functions (PW190).....	67		
IC Block Diagrams	68		
Parts Location Diagram	74		
Mechanical Parts List	81		
Electrical Parts List.....	82		

Safety Instructions

The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.



WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



WARNING : Use UV Radiation eye and skin protection during servicing

CAUTION

Precaution

If using of this projector at high altitudes (above 1,400m), set HIGHT ALTITUDE MODE to "ON".
(Refer to "PROJECTOR SETUP menu" in Operating Instructions.)
Failure to observe this may cause malfunctions. Never use this projector at an altitude of 2,700m or higher.
Using this projector at high altitude, consult your dealer or Authorized Service Center about preparations.

About lead free solder (PbF)

This projector is using the P.C.Board which applies lead free solder.
Use lead free solder in servicing from the standpoint of antipollution for the global environment.

Notes:

- Lead free solder: Sn-Ag-Cu (tin, silver and copper) has a higher melting point (approx. 217°C) than standard solder. Typically the melting point is 30~40 °C higher. When servicing, use a high temperature soldering iron with temperature limitation function and set it to 370 ± 10 °C.
- Be precautions about lead free solder. Sn-Ag-Cu (tin, silver and copper) will tend to splash when heated too high (approx. 600°C or higher).
- Use lead free solder for the P.C.Board (specified on it as "PbF") which uses lead free solder. (When you unavoidably use lead solder, use lead solder after removing lead free solder. Or be sure to heat the lead free solder until it melts completely, before applying lead solder.)
- After soldering to double layered P.C.Boards, check the component side for excess solder which may flow onto the opposite side.

About the identification of the lead free solder P.C.Board.

For the P.C.Board which applies lead free solder, the symbol as shown in the figure below is printed or stamped on the surface or the back of P.C.Board.



For US

IMPORTANT SAFETY NOTICE

There are special parts used in Panasonic LCD Projectors which are important for safety. These parts are shaded on the schematic diagram. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of PANASONIC SOLUTIONS COMPANY.

WARNING:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, The user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION : Any unauthorized changes or modifications to this equipment will void the users authority to operate.

Safety precautions

1.1. General Guidelines

- For continued safety, no modification of any circuit must be attempted.
- Unplug the power cord from the power outlet before disassembling this projector.
- Use correctly the supplied power cord and must ground it.
- It is advisable to use an isolation transformer in the AC power line before the service.
- Be careful not to touch the rotation part (cooling fan, etc.) of this projector when you service with the upper case removed and the power supply turned ON.
- Observe the original lead dress during the service. If a short circuit is found, replace all the parts overheated or damaged by the short circuit.
- After the service, all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations must be properly installed.
- After the service, check the leakage current to prevent the customer from getting an electric shock.

1.2. Leakage Current Check

1. Prepare the measuring circuit as shown in Fig.1.
Be sure to use a voltmeter having the performance described in Table 1.
2. Assemble the circuit as shown in Fig. 2. Plug the power cord in a power outlet.
3. Connect M1 to T1 according to Fig. 2 and measure the voltage.
4. Change the connection of M1 from T1 to T2 and measure the voltage again.
5. The voltmeter must read 0.375 V or lower in both of steps 3 and 4. This means that the current must be 0.75mA or less.
6. If the reading is out of the above standard, the projector must be repaired and rechecked before returning to the customer because of a possibility of an electric shock.

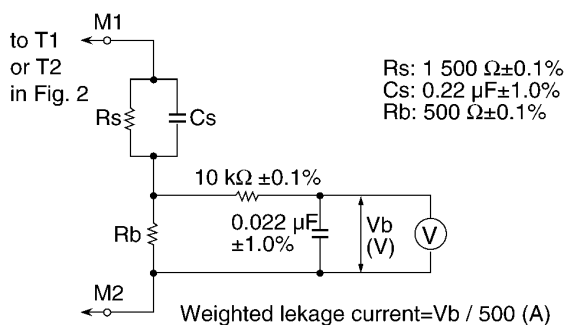


Fig. 1

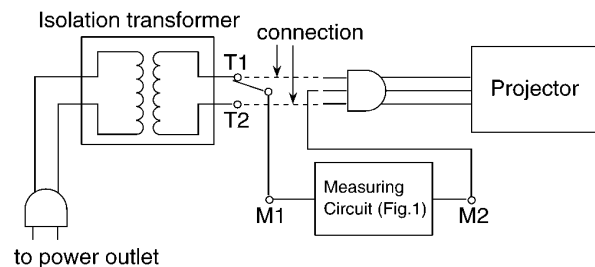


Fig. 2

	Performance
Voltmeter (rms reading)	Accuracy: $\leq 2\%$
	Input resistance: $\geq 1 \text{ M}\Omega$
	Input capacitance: $\leq 200 \text{ pF}$
	Frequency range: 15 Hz to 1 MHz

Table. 2

1.3. UV Precaution and UHM Lamp Precautions

- Be sure to unplug the power cord from the power outlet when replacing the lamp.
- Because the lamp reaches a very high temperature during its operation, wait until it cools completely when replacing the Lamp Unit.
- The lamp emits small amounts of UV-radiation, avoid direct-eye contact with the light.
- The lamp unit has high internal pressure. If improperly handled, explosion might result.
- Because the high pressure lamp involves a risk of failure, never touch the lamp wire lead during the service.

Specifications

Model No.		PT-VX400U / E / EA
Power supply		AC100 V - 240 V 50 Hz/60 Hz
Power consumption		100 V - 240 V 3.8 A-1.8 A 350 W
		When [Standby mode] of [Setting] is set to [ECO]: 0.48W When [Standby mode] of [Setting] is set to [Network]: 10.0W
		When [Standby MIC out] of [Sound] is set to [On]: Max.26 W
LCD panel	Panel size	1.6 cm(0.63") (aspect ratio 4 : 3)
	Display method	3 transparent LCD panels (RGB)
	Drive method	Active matrix method
	Pixels	789 432 (1 024 x 768) x 3 panels
Lens		Manual zoom (1.6x) / Manual focus F 1.65 to 2.33, f 15.47 mm to 24.53 mm
Luminous lamp		245 W UHP lamp
Light output *1		4000 lm (ANSI)
Applicable scanning frequency *2	for RGB signal	Horizontal 15 kHz to 100 kHz, Vertical 50 Hz to 100 Hz
		Dot clock frequency: 140 MHz or less
	for YPBPR signal	[525i(480i)] Horizontal 15.75 kHz, Vertical 60 Hz [525p(480p)] Horizontal 31.5 kHz, Vertical 60 Hz [750(720)/60p] Horizontal 45 kHz, Vertical 60 Hz [1125(1080)/60i] Horizontal 33.75 kHz, Vertical 60 Hz [625i(576i)] Horizontal 15.63 kHz, Vertical 50 Hz [625p(576p)] Horizontal 31.25 kHz, Vertical 50 Hz [750(720)/50p] Horizontal 37.5 kHz, Vertical 50 Hz [1125(1080)/50i] Horizontal 28.13 kHz, Vertical 50 Hz • HD/SYNC and V terminals are not compliant with 3 value composite SYNC
	for Video signal (including S-Video)	Horizontal 15.75 kHz / 15.63 kHz, Vertical 50 Hz / 60 Hz
	for HDMI signal	525p(480p), 625p(576p), 750(720)/60p, 750(720)/50p, 1125(1080)/60p, 1125(1080)/50p, 1125(1080)/60i, 1125(1080)/50i • Displayable resolution: VGA to WUXGA (non-interlace) • Dot clock frequency: up to 162 MH
Color system		7 (NTSC, NTSC4.43, PAL, PAL-N, PAL-M, SECAM, PAL60)
Projection size		0.76 m-7.62 m(30"-300")
Screen aspect ratio		4 : 3
Projection scheme		Front / Rear / Mount on Ceiling / Floor (Menu setting system)
Speaker		1 (3.7 cm round-type)
Maximum usable volume output		10W
Contrast ratio *1		2000 : 1 (all white / all black)

*1: Measurement, measuring conditions and method of notation all comply with ISO21118 international standards.

*2: For details of video signals that can be projected using this projector, refer to "List of compatible signals".

Specifications

Model No.		PT-VX400U / E / EA
Terminals	COMPUTER IN 1 /COMPONENT IN	1 (D-sub 15 pin female) [RGB signal] 0.7 V [p-p] 75 Ω (When G-SYNC: 1.0 [p-p] 75 Ω HD/SYNC TTL high impedance, automatic positive/negative polarity compatible VD TTL high impedance, automatic positive/negative polarity compatible [YPbPr signal] Y: 1.0 V [p-p] including synchronization signal, PbPr: 0.7 V [p-p] 75 Ω
	COMPUTER IN 2 /MONITOR OUT	[RGB signal] 0.7 V [p-p] 75 Ω (When G-SYNC: 1.0 [p-p] 75 Ω HD/SYNC TTL high impedance, automatic positive/negative polarity compatible VD TTL high impedance, automatic positive/negative polarity compatible
	VIDEO IN	1 (RCA pin jack 1.0 V [p-p] 75 Ω)
	S-VIDEO IN	1 (Mini DIN 4 pin, Y 1.0 V [p-p], C 0.286 V [p-p] 75 Ω, S1 signal compatible)
	HDMI IN	1 (HDMI 19 pin, HDCP and Deep color compatible)
	AUDIO IN	2 (M3 stereo mini jack, 0.5 V [rms], input impedance 22 kΩ and more) 1 (RCA pin jack x 2 (L-R), 0.5 V [rms], input impedance 22 kΩ and more)
	AUDIO OUT	1 (M3 stereo mini jack, stereo monitor output compatible, 0 V [rms] to 2.0 V [rms] valuable, output impedance 2.2 kΩ and less)
	CONTROL PORT	1 (D-sub 9 pin, RS-232C compliant, for computer control use)
	LAN	1 (for RJ-45 network connection, PJLink compatible,)
Power cable length		2.0 m(78 3/4")
Cabinet		Molded plastic
Dimensions		Width: 350 mm (13.78") Height: 97.0 mm (3.82") (when front adjustable feet shortened) Depth: 276.9 mm (10.9") (excluding protractions)
Weight		Approx.3.5 kg(7.72 lbs.) *3
Operating environment		Operating environment temperature : 5 °C (41 °F) to 35 °C (95 °F) Operating environment humidity: 20 % to 80 % (no condensation)
Remote control	Power supply	DC 3 V (battery (AAA/R03) x 2)
	Operating range	Approx. 5 m (196.9") (when operated directly in front of receptor)
	Weight	67 g (2.36 ozs.) (including batteries)
	Dimensions	Width : 52 mm (2.05"), Length : 110 mm (4.33"), Height : 18 mm (0.71")

*3: This is an average value. It may differ depending on individual product.

- The part numbers of accessories and separately sold components are subject to change without notice.

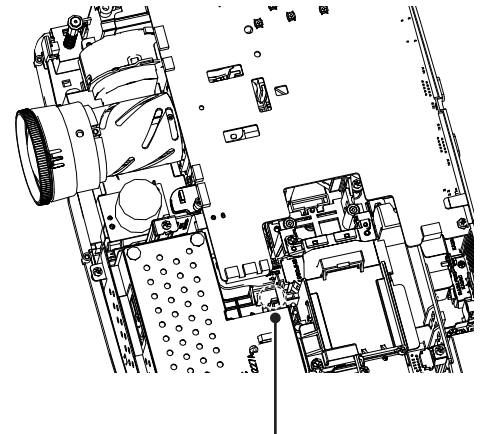
Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Thermal fuse (SW902)

There is a thermal fuse (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature around lamp reaches near 113°C, the thermal fuse will open to cut off the power supply to the lamp power circuit.

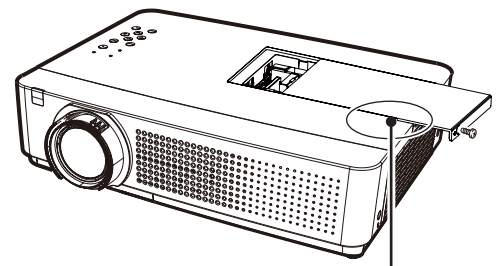
If the thermal fuse opens, the projector cannot turn on. Thermal fuse replacement is required.



Thermal fuse (SW902)

Lamp cover switch (SW901)

The lamp cover switch (SW901) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp assy, place the lamp cover correctly otherwise the projector can not turn on.



Lamp cover switch (SW901)

Fuse (F601)

A fuse is located inside of the projector. When the POWER indicator is not lighting, the fuse may be opened. Check the fuse as following steps.

The fuse should be used with the following type;

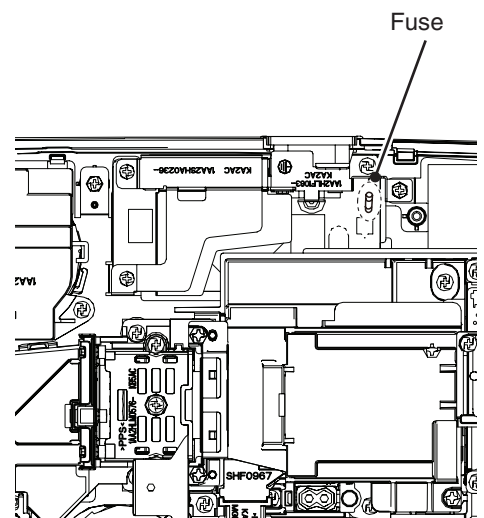
Fuse Part No.: 323 021 7804
TYPE T6.3AH 250V FUSE
LITTEL FUSE INC. TYPE 21506.3

or

Fuse Part No. : 423 034 4101
TYPE T6.3AH 250V FUSE
Hollyland Co, Ltd. TYPE 50CT063H

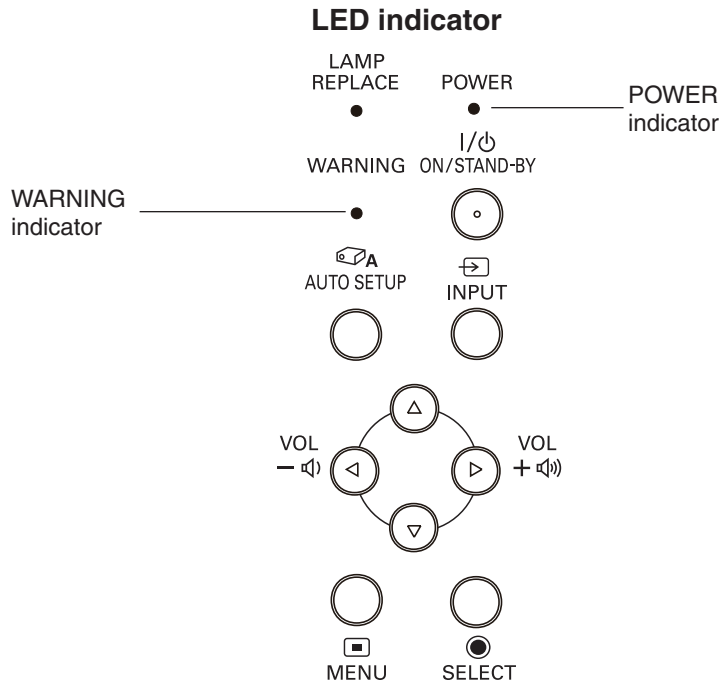
How to replace the fuse

1. The fuse is placed on the filter board. Remove the cabinet top following the "Mechanical Disassembly" .
2. Take the fuse off from the fuse holder, and replace the new one with the specified type.



Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.



The projector is shut down and the WARNING indicator is blinking red.

When the temperature inside the projector reaches a certain level, the projector will be automatically shut down to protect the inside of the projector and the WARNING and POWER indicators start blinking. When the projector has cooled down enough (to its normal operating temperature), the POWER indicator stops blinking and lights red. The projector can be turned on again by pressing the ON/STAND-BY button.

✓ **Note:**

The WARNING indicator continues to blink even after the temperature inside the projector returns to normal. When the projector is turned on again, the WARNING indicator stops blinking.

Check items

- Remove dust around the air filter.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 °C or 41 to 95°F)

The projector is shut down and the WARNING indicator lights red.

When the projector detects an abnormal condition, it is automatically shut down to protect the inside of the projector and the WARNING indicator lights red. In this case, unplug the AC power cord and reconnect it, and then turn the projector on once again to verify operation.

✓ **Note:**

- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter "Power supply & protection circuit" and "Fan control circuit" in the Chassis Block Diagram section.



WARNING

DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

Maintenance

Before replacing the unit

When you perform maintenance or replacement of the parts, make sure to turn off the power and disconnect the power plug from the wall outlet.

Maintenance

■ Outer Case

Wipe off dirt and dust using a soft dry cloth.

- If the dirt is persistent, soak the cloth with water and wring it thoroughly before wiping. Dry off the projector with a dry cloth.
- Do not use benzene, thinner, or rubbing alcohol, other solvents, household cleaners, or chemical treated dusters. Using them may cause deterioration of the outer case.

■ Front glass surface of the lens

Wipe off the dirt and dust off the front surface of the lens with soft clean cloth.

- Do not use a cloth that has an abrasive surface or a cloth that is moist, oily, or covered with dust.
- Do not use excessive force when wiping the lens as it is fragile.

Attention

The lens is made of glass. Impacts or excessive force when wiping may scratch its surface. Please handle with care.

■ Air filters

Perform the maintenance of the air filter units in following cases. If a “Filter warning” icon appears on the screen, replace the filters immediately.

- The filter mesh is blocked, causing the filter warning icon appears on the screen and the <WARNING Indicator> to light in red.
- The filter mesh is blocked, causing the internal temperature to rise, the <POWER Indicator> to light, and the power to shut off. (When the power is shut off, the <POWER Indicator> blinks in red and the <WARNING Indicator> blinks faster than usual.)

Replacing the unit

Air filter units

Filter prevents dust from accumulating on the optical elements inside the projector. Should the filter become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a “Filter warning” icon appears on the screen, replace the filters immediately.

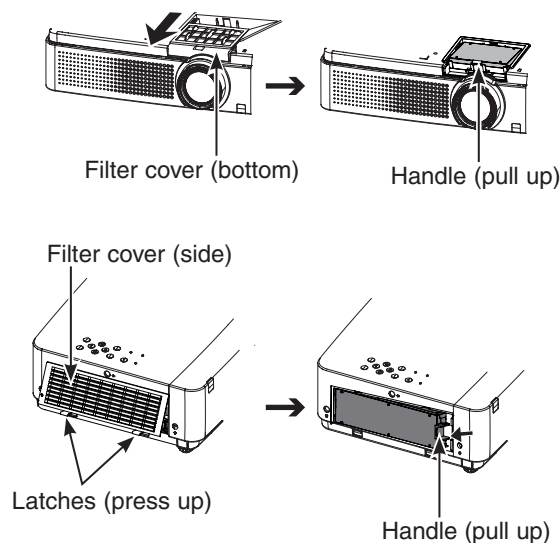
■ Replacement of the air filter units

1) Remove the air filters.

- Turn over the projector and pull out the filter cover (bottom); pull up the handle and take out the whole filter (bottom.)
Press up the latches and pull out the filter cover (side); pull out the handle and take out the side filter.

2) Replace the air filter units.

- Put new filters back into the position. Make sure that the filters are fully inserted to the projector.



Air Filter set : ET-RFV100 (Side Filter and Bottom Filter)
* Distribution through commercial channel.

■ Filter counter reset

After replacing the filter, be sure to reset the filter counter.

1) Press **▲▼** to select **[Filter counter reset]**.

2) Press the **<SELECT>** button.

[Filter counter Reset?] appears. Select Yes to continue. Another confirmation dialog box appears, select Yes to reset the Filter counter.

Attention

- Turn off the power before you replace the air filter unit.
- When attaching the air filter unit, make sure that the projector is stable, and work in an environment that is safe, even in the event of the air filter unit dropping.
- Do not operate the projector with the filters removed. Dust may accumulate on the optical elements degrading picture quality.
- Do not put anything into the air vents. Doing so may result in malfunction of the projector.
- Do not wash the filters with water or any other liquid matter. Otherwise the filters may be damaged.

■ Attaching the filter cover to the projector

The supplied filter cover is designed for preventing dust accumulation on the filter when mounting the projector on the ceiling.

1) Turn over the projector.

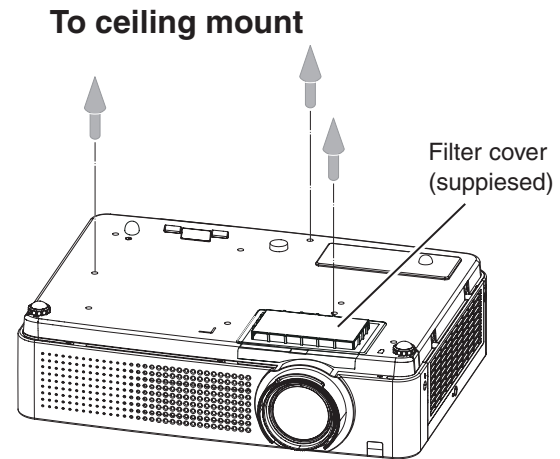
2) Remove the filter cover (bottom).

3) Attaching the filter cover (supplied) to the projector.

4) Attach the projector to the ceiling mount in accordance with the instruction manuals which come with the ceiling mount.

Attention

- Please keep the filter cover (bottom) for later use.
- If the Projector Mount Base (ET-PKV100B) is applied, the supplied filter cover is unnecessary.



■ Lamp unit

The lamp unit is a consumable component. You can check the total usage time using Lamp runtime in the Information menu.

It is recommended to ask an authorized engineer to replace the lamp unit. Contact your dealer.

Consult your dealer to purchase a replacement lamp unit (ET-LAV100, dealt as a service parts).

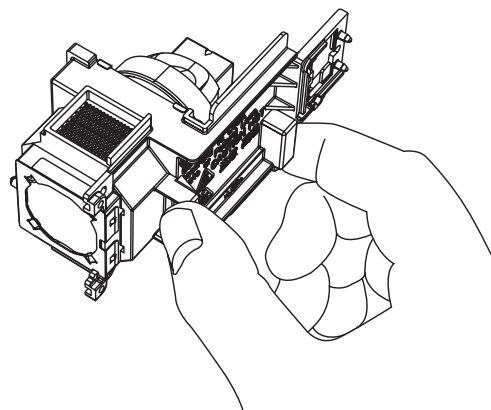
CAUTION:

■ Do not replace the lamp unit when it is hot. (Wait at least 45 minutes after use.)

The inside of the cover can become very hot, take care to avoid burn injuries.

■ Notes on the replacement of the lamp unit

- The luminous source of the lamp is made of glass and may burst if you hit it against a hard surface or drop it.
Please handle with care.
- A Phillips screwdriver is required for replacement of the lamp unit.
- When replacing the lamp unit, be sure to hold it by the handle. Hold the lamp unit horizontally while replacing it to prevent fragments of glass from scattering, in case the lamp breaks. When the projector is mounted on a ceiling, do not work directly under the projector or put your face close to the projector. Pull the old lamp unit out horizontally.
- The lamp contains mercury. Consult your local municipality or your dealer about correct disposal of used lamp units.





Attention

- Do not use other than designated lamp units.
- The part numbers of accessories and separately sold components are subject to change without notice

■ When to replace the lamp unit

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights yellow. Replace the lamp with a new one promptly.

	On screen Lamp replacement icon 	LAMP REPLACE indicator 
Over 3000 hours	The message is displayed for 10 seconds. If you press any button within the 10 seconds, the message disappears.	Lights in yellow (even in stand-by mode).
Over 3200 hours	After ten minutes, the projector shuts off the power automatically	

Note

- Allow a projector to cool enough before you open the lamp cover. The inside of the projector can become very hot.
- The Lamp replacement icon will not appear when the display function is set to Off, or during Freeze, or AV mute.

Replacing the lamp unit

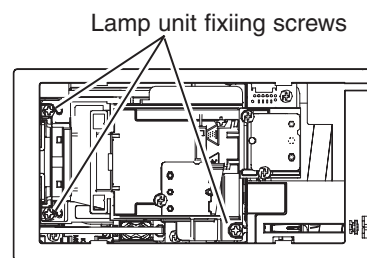
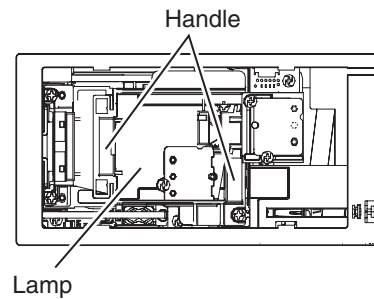
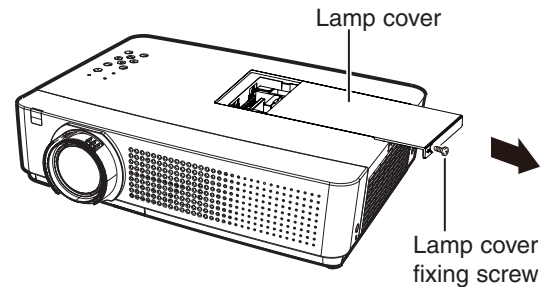
CAUTION:

- When the projector is mounted on a ceiling, do not work with your face close to the projector.
- Attach the lamp unit and the lamp cover securely.
- When you experience difficulty in installing the lamp, remove it and try again. If you use force to install the lamp, the connector may be damaged.

- 1) Turn off the projector. Unplug the AC power cord. Wait at least 45 minutes and make sure the lamp unit and surroundings are cool.
- 2) Use a Phillips screwdriver to loosen the lamp cover fixing screw and remove the lamp cover.
 - Remove the lamp cover by pulling it slowly toward the direction of the arrow.
- 3) Use a Phillips screwdriver to loosen the lamp unit fixing screws until the screws turn freely. Hold the used lamp unit by its handles, and pull it gently from the projector.
- 4) Insert the new lamp unit in correct direction. Tighten the three lamp unit fixing screws securely with a Phillips screwdriver
- 5) Attach the lamp cover, and tighten the lamp cover fixing screw securely with a Phillips screwdriver.

Note

- When you replace the new lamp unit, the projector resets the total usage time of the lamp unit automatically.



Maintenance

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 3,000 hours. This is to indicate that lamp replacement is required. The total lamp used time is calculated by using the below expression.

Total lamp used time (Corresponding value) = $T_{normal} + T_{eco} \times 0.67 + T_{auto} \times k^*$

T_{normal} : used time in the normal mode

T_{eco} : used time in the eco1 and eco2 mode

T_{auto} : used time in the auto mode

* Factor k is changed from 0.67 to 1.0 automatically depending on the input signal

You can check the lamp used time following to the below procedure.

- 1 Press and hold the **ON/STAND-BY** button on the projector or the remote control for more than 20 seconds.
- 2 The projector used time and lamp used time will be displayed on the screen briefly as follows.

Counter		
Projector	850H	Projector used time
Lamp		
Auto	200H	Cumulative lamp operating time in each mode.
Normal	150H	
Eco1	250H	
Eco2	250H	
Corresponding value	610H	Total lamp used time

Warning message on the non-standard lamp used

If the non-standard lamp is used, the warning and confirmation messages will appear on the screen every startup. Some of the functions are limited when the non-standard lamp is used in spite of the warning.

Since the lamp is not standard,
projector failed to read lamp data.
Continue to use this lamp?

Yes

No

Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit. Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

Remove the cabinet top following to “Mechanical Disassembly”. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:

Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be very careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.

Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassembly”.
2. Remove the optical base top following to “Optical Unit Disassembly”. If the LCD panel needs cleaning, remove the LCD panel unit following to “LCD panel replacement”.
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

Caution:

The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.

Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

Cleaning the projection lens

Unplug the AC power cord before cleaning.

Gently wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner, or use a lens cleaning paper or commercially available air blower to clean the lens.

Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the lens.

Cleaning the projector cabinet

Unplug the AC power cord before cleaning.

Gently wipe the projector body with a soft dry cleaning cloth. When the cabinet is heavily soiled, use a small amount of mild detergent and finish with a soft dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put the projector in an appropriate carrying case to protect it from dust and scratches.

Security Function Notice

This projector provides security functions such as "Key lock", "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started. In this case, you must reset those function first according to the resetting procedure described below and then check up on the projector.

Function	Description
Key lock	Locks operation of the top control or the remote control. If the Key lock is enabled with top control lock, the projector can no longer be started. Initial setting: Key lock function is disabled
PIN code lock	Prevents the projector from being operated by an unauthorized person. Initial code: "1234"
Logo PIN code lock	Prevents an unauthorized person for changing the start-up logo on the screen. Initial code: "4321"

Resetting procedure

- 1 Disconnect the AC power cord from the AC outlet.
2. As pressing the **SELECT** button, connect the AC power cord into an AC outlet again.
3. Keep pressing the **SELECT** button and then press the **ON/STAND-BY** button.
4. Release the **ON/STAND-BY** button first and then release the **SELECT** button.
 - The PIN code lock and Logo PIN code lock will be reset as the initial PIN code at the factory and the key lock function is disabled.

Please refer to the owner's manual for further information of the security functions.

Standby Mode Notice

This projector provides 2 types of standby mode, Eco standby and Network standby. According to the standby mode "Eco" or "Network", several functions are restricted as shown in the table below. To change the standby mode, use the projector's menu "Setting".

Network..... Supply the power to the network function even after turning off the projector. You can turn on/ off the projector via network, modify network environment, and receive an e-mail about projector status while the projector is powered off.

Eco..... Select "Eco" when you do not use the projector via network. The projector's network function will stop when turning off the projector.

When "Eco" is selected, several functions will be restricted.

Restricted Function in the standby mode

Function	Eco	Network
Serial command control	✓ ^{*1}	✓
Network Function	--	✓
Monitor Out	--	✓
Audio Out	--	--
Mic Out (MIC Volume)	--	✓ ^{*2}
Direct on	✓	✓

*1 Effective only power-on command.

*2 MIC volume can be output when the Standby MIC Out function is set to **On**.


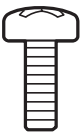
Mechanical Disassembly

Mechanical disassembly should be made following procedures in numerical order.

Following steps show the basic procedures, therefore unnecessary step may be ignored.

Caution:

The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

Screws expression (Type Diameter x Length) mm	
T type	M Type
	

1. Cabinet top, cabinet front removal

1. Pull up two latches to take off the filter cover(side).
2. Loosen 1 screw-A to remove the lamp cover.
3. Remove 6 screws-B (M3x8) and 1 screw C-(M3x8) to remove the cabinet top.
4. Remove 4 screws-D (M3x8) and 3 screws-E (T3x8) to remove the cabinet front.

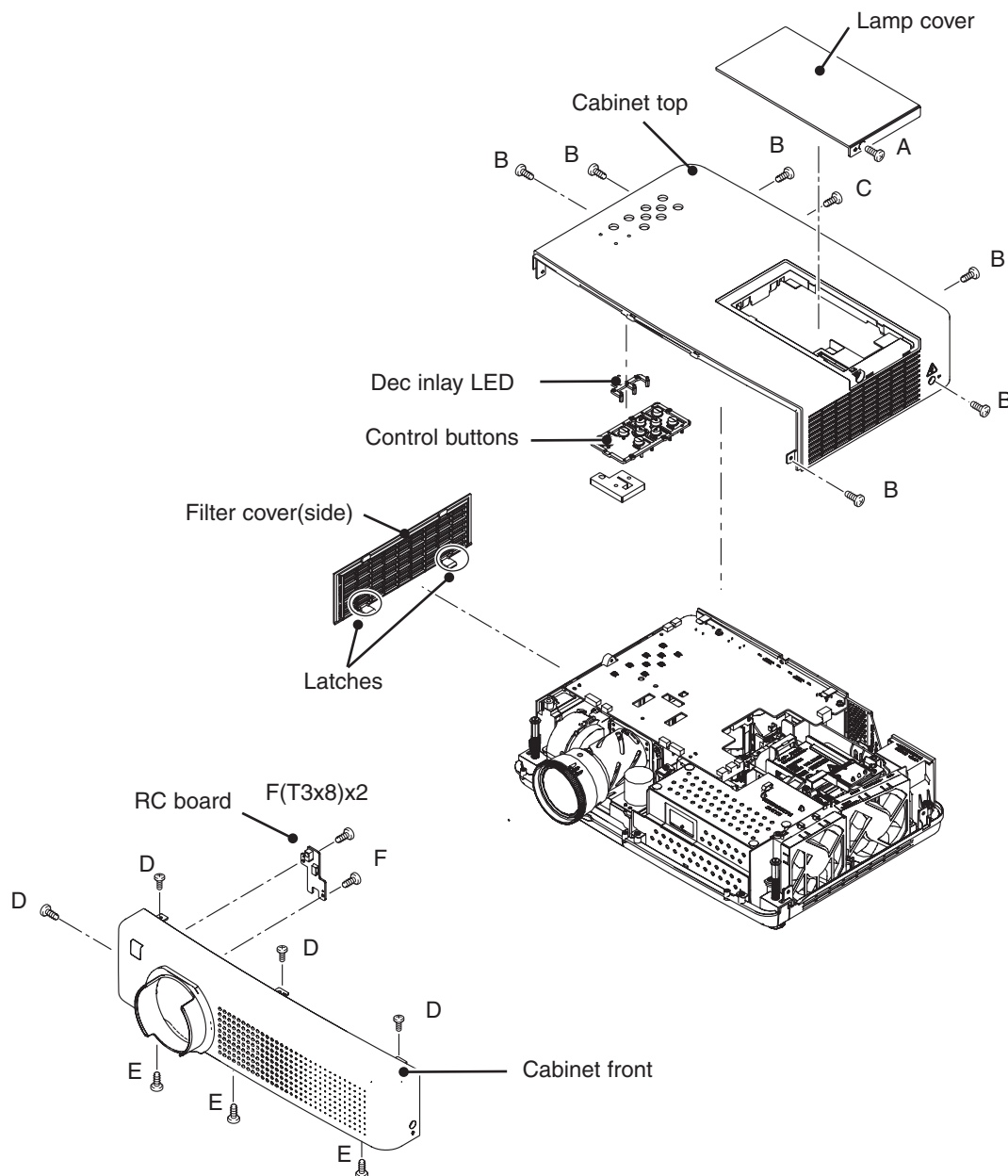


Fig.1

2. Main board, AV board and fans(FN904 and FN905) removal

1. Remove 3 screws-A (T3x8) to remove the fans (FN904 and FN905).
2. Remove 3 screws-B (M2.5x6) and 2 screws-C (M3x8) to remove the main board assy.
3. Release the hooks to remove the AV panel, remove 3 screws-D (T3x6) and 2 hex screws E to remove the AV board.

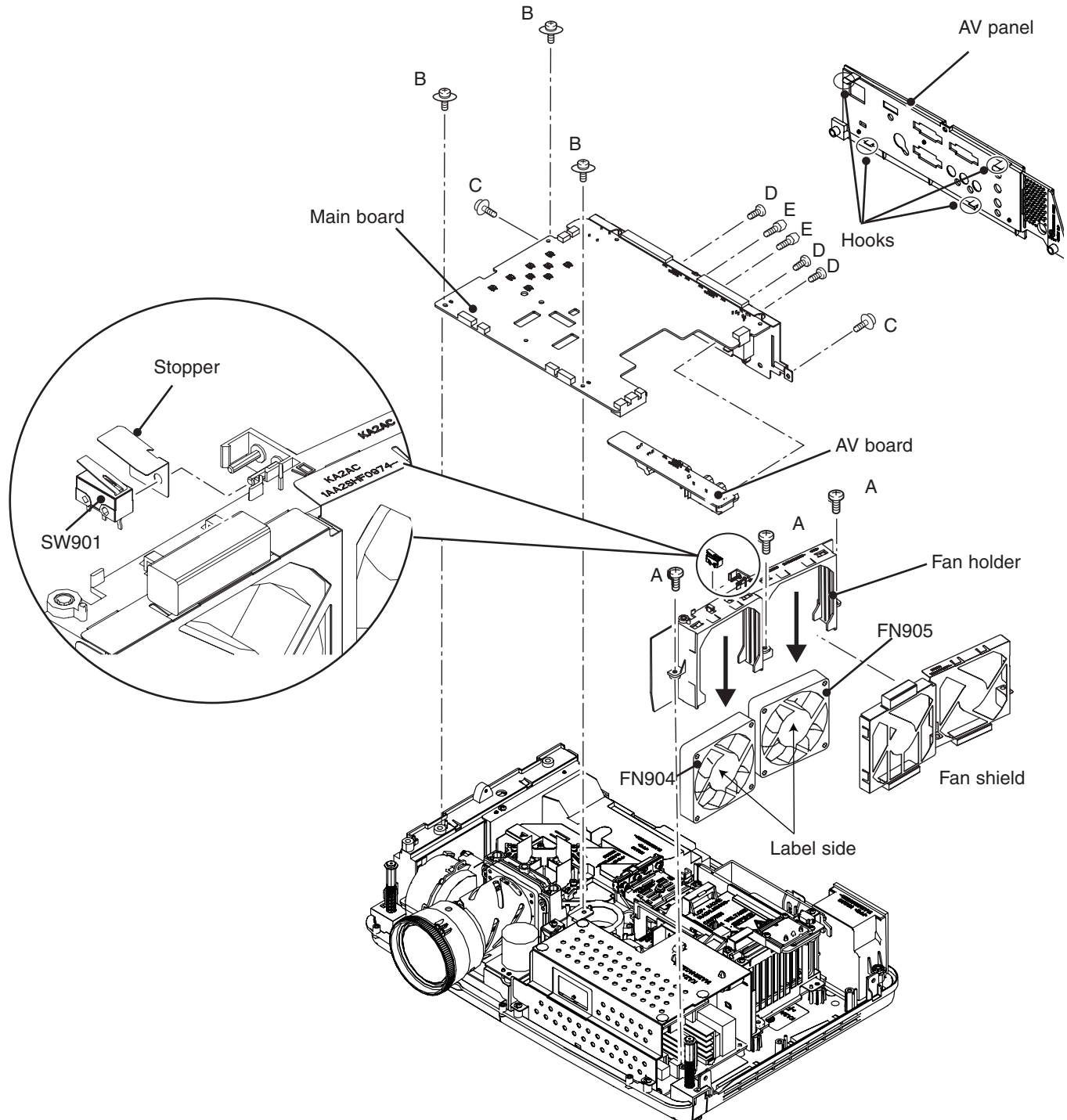


Fig.2

3. Speaker(SP901), lamp assy(LP900), optical unit removal

1. Remove the 2 screws-A(T3x12) to remove the speaker holder. Remove the 2 screws-B(T3x8) to remove the speaker(SP901).
2. Loosen 3 screws-C to remove the lamp assy (LP900).
3. Remove 4 screws-D (T3x8) to remove the optical unit.
4. Remove 3 screws-E (T3x8) and 1 screw-F(M3x8) to remove the lamp holder.
- Remove 2 screws-G(T3x6) to remove the ID connect board.
5. Remove 2 screws-H(T3x8) to remove the sub power board.
6. Remove 3 screws-K (M3x8) and 1 screw-J (T3x8) to remove the AC filter board.

Note:

When removing screws-G which is to fix the ID connect board, the special screwdriver is needed as the below;
Star screwdriver Size: T10

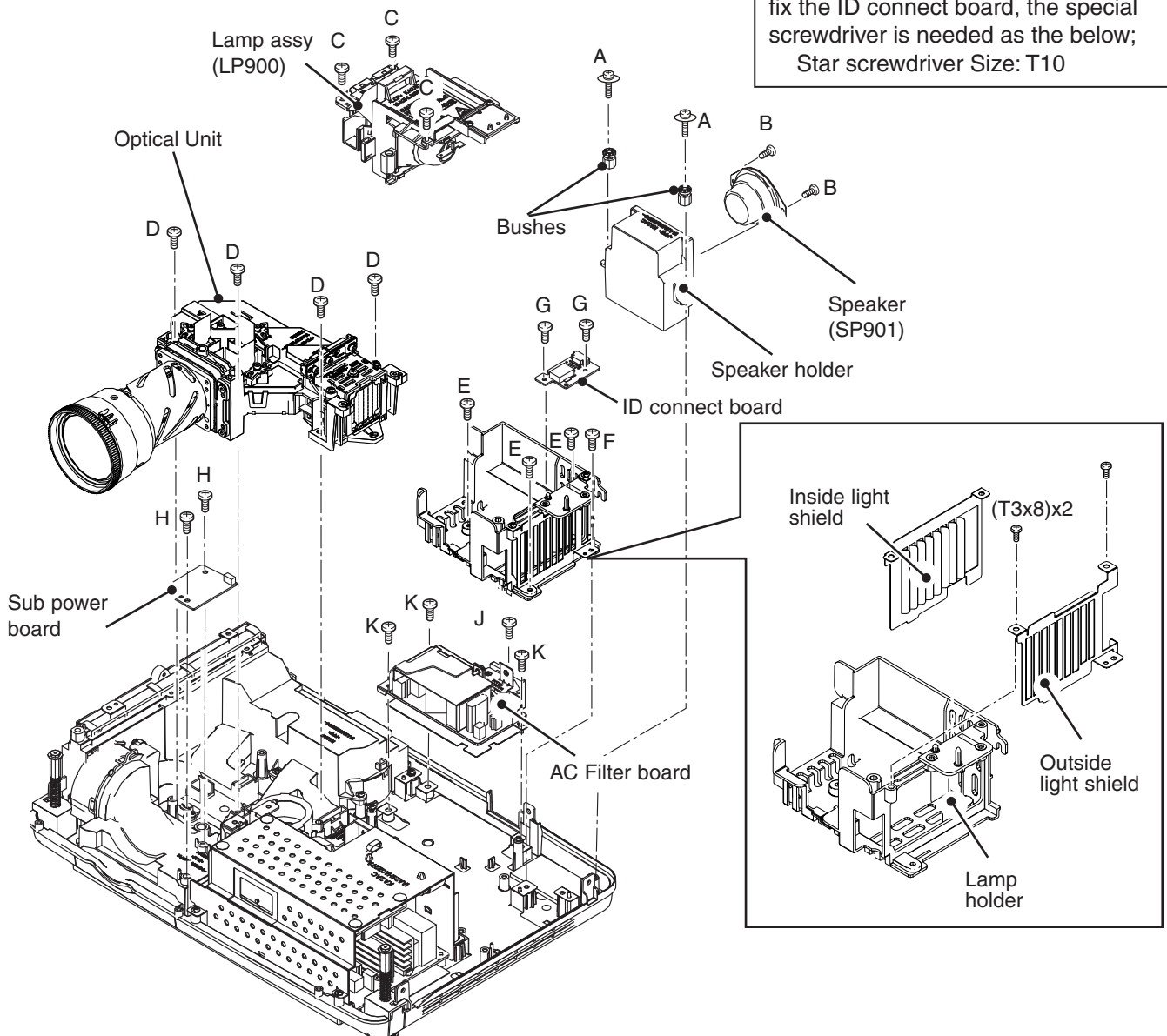


Fig.3

4. Fan (FN906) , thermal fuse (SW902) and power board removal

1. Remove 2 screws-A (T3x8) to remove the cabinet front holder. Remove 1 screw-B (T3x8) to remove the thermal fuse (SW902).
2. Remove 2 screws-C(T3x8) to remove the lamp fan duct assy.
3. Remove 1 screw-D (T3x8) and 2 screws-E (T3x8) to remove the lamp socket and socket plug.
4. Remove 2 screws-F (T3x8) and 1 screw-G (M3x8) to remove the ballast board & shield assy.
5. Remove 2 screws-H (T3x8) and 2 screws-J (M3x8) to remove the power board.

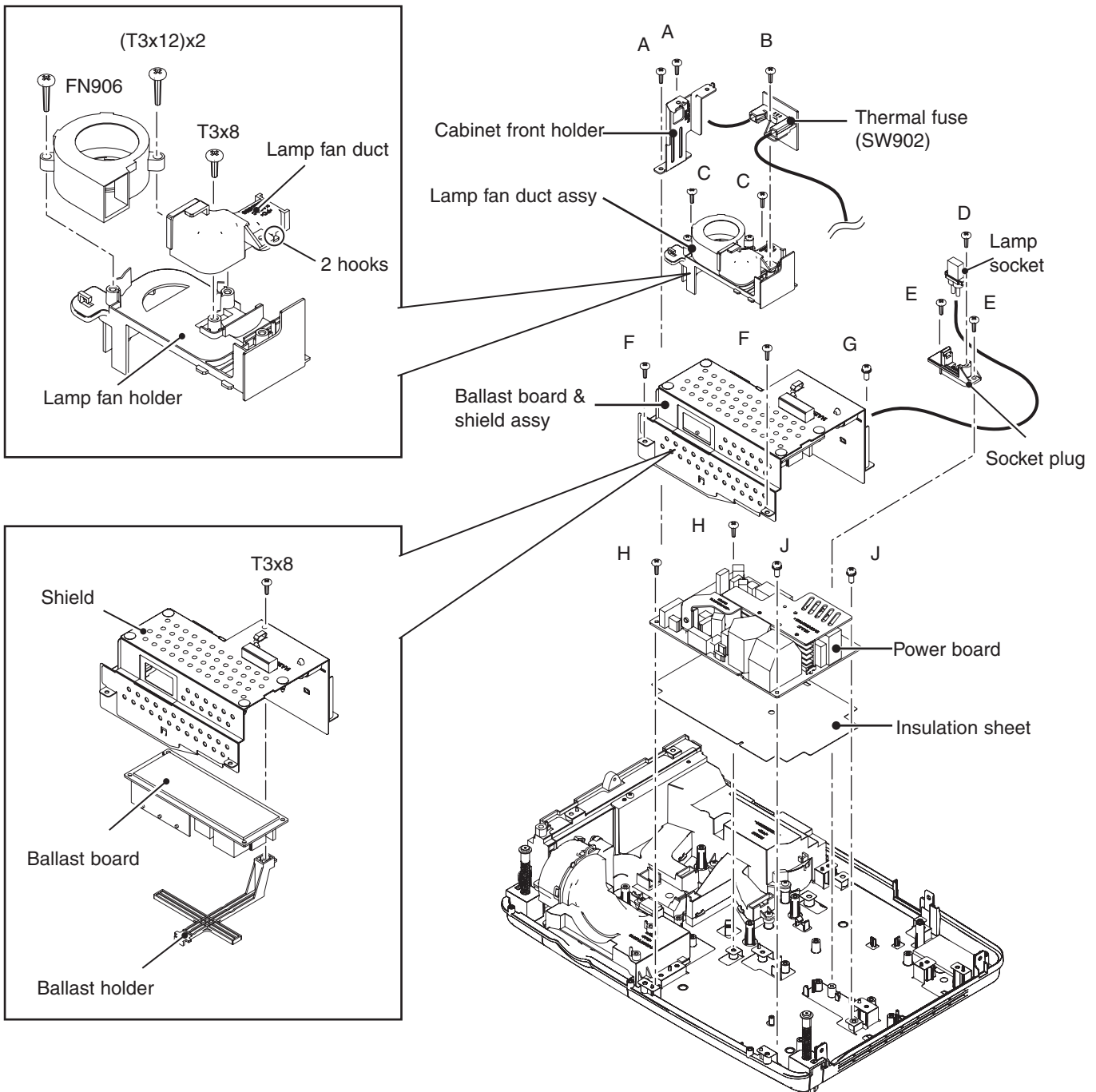


Fig.4

5. Mounting duct, fans(FN901, FN902, FN903) removal

1. Remove 5 screws-A (T3x8) and 2 screws-B (T3x12) to remove the panel mounting duct assy.
2. Remove 2 screws-C (T3x12) to remove fans (FN902 and FN903).
3. Remove 3 screws-D (T3x8) to remove the filter mounting duct and remove 2 screws-E(T3x12) to remove fan (FN901).
4. Take out the filter box(side), and then remove 2 screws-F(T3x8) to remove the side filter holder.
5. Take off the filter box(bottom) and filter cover(bottom).

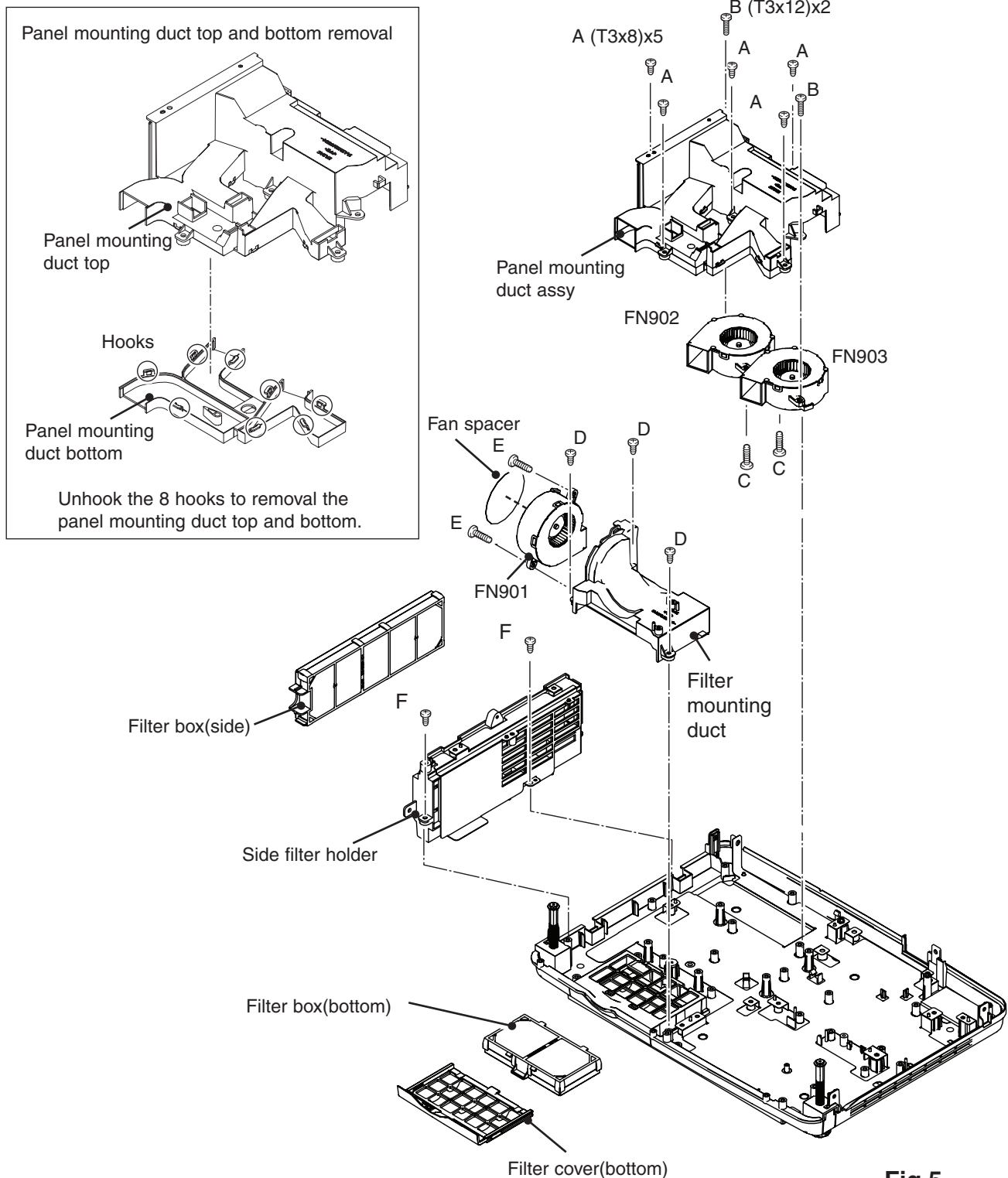


Fig.5

6. Cable reforming

Reform cables as shown below.

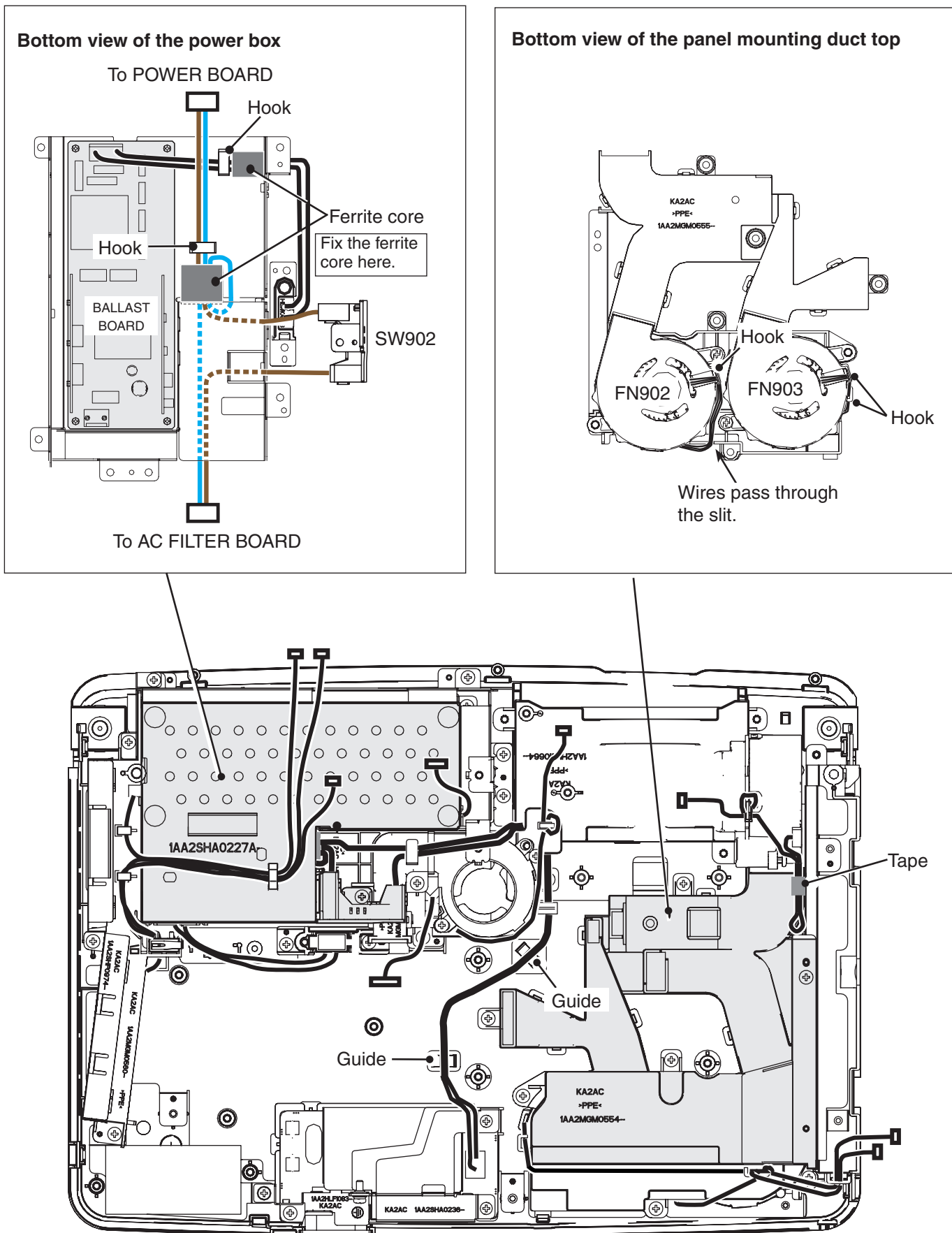


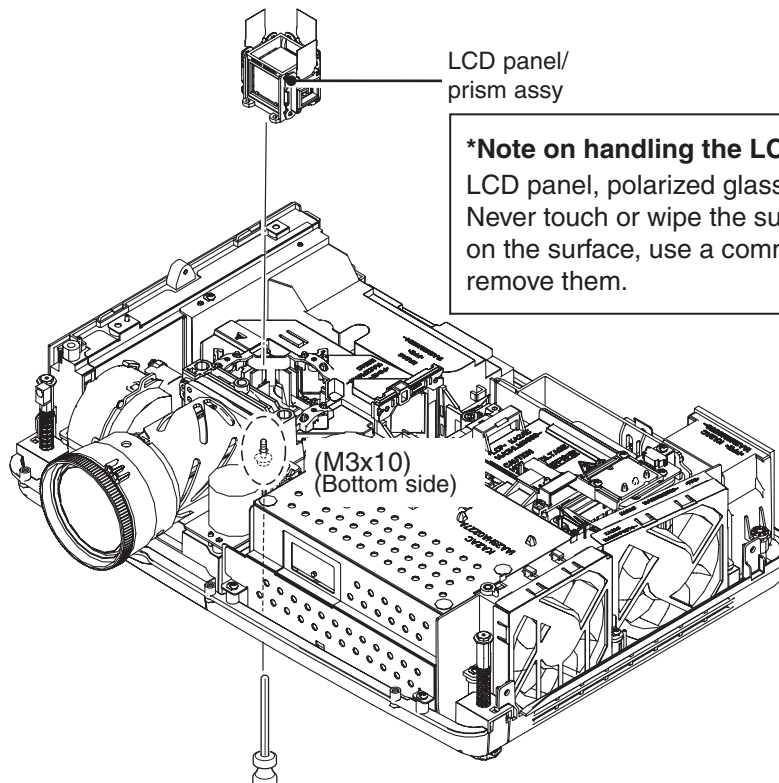
Fig.6

Optical Parts Disassembly

Before taking this procedure, remove Cabinet Top and Main Board following to the "Mechanical Disassembly". Disassembly requires a 2.0mm hex wrench.

1. LCD panel/prism assy removal

1. Loosen 1 screw (M3x10) from the cabinet bottom side and take the LCD panel/prism assy upward off.



***Note on handling the LCD panel/prism assy**
LCD panel, polarized glasses are very sensitive parts. Never touch or wipe the surface. When removing the dust on the surface, use a commercial (inert gas) air spray to remove them.

Fig.1

IMPORTANT NOTICE on LCD panel/prism assy replacement

LCD panels used for this model cannot be replaced separately. Do not disassemble the LCD panel/prism assy. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism assy at once.

When replacing LCD panel/prism assy, take the optical and electrical adjustments following to the chapter "Adjustment".

2. Polarized glass(IN) assy removal

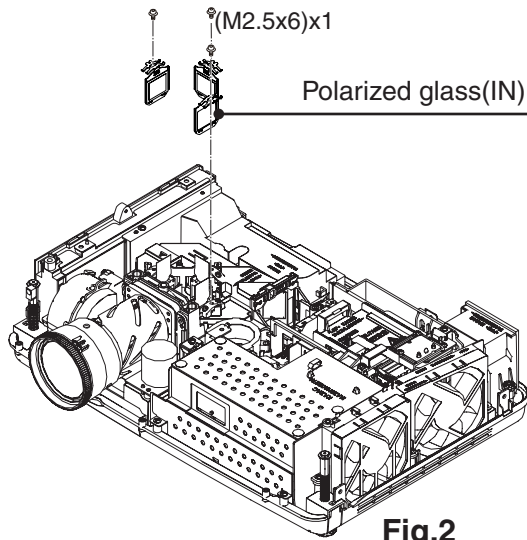


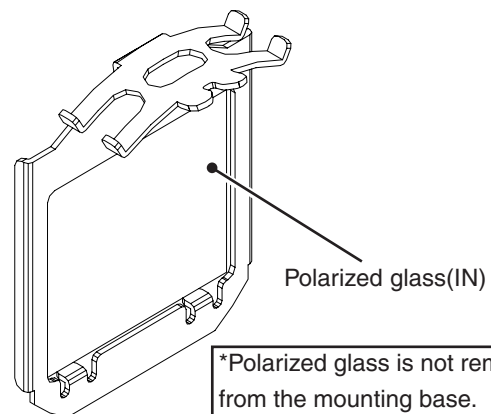
Fig.2

*Note on handling the polarized glass

B-Polarized glass-in is very sensitive parts. Never touch or wipe the surface. Grab the mounting base when handling the polarized glass assy. When removing the dust on the surface, use a commercial (inert gas) air spray to remove them. Never use organic solvents.

Note on mounting the Polarized glass(IN) assy

When mounting the R-Polarized glass(IN) assy and B-Polarized glass(IN) assy, make sure that mounting position of the holder should be center.



3. Projection lens removal

Note: The optical unit should be removed from the cabinet bottom before removing the projection lens.

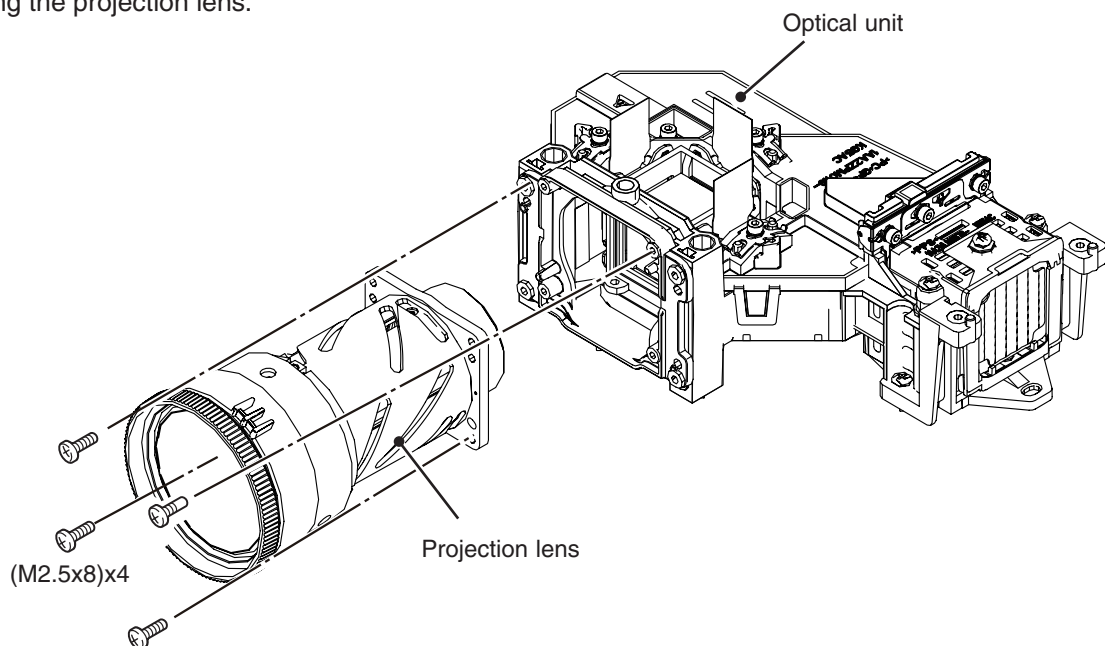


Fig.3

4. Integrator and condenser lens (OUT) disassembly

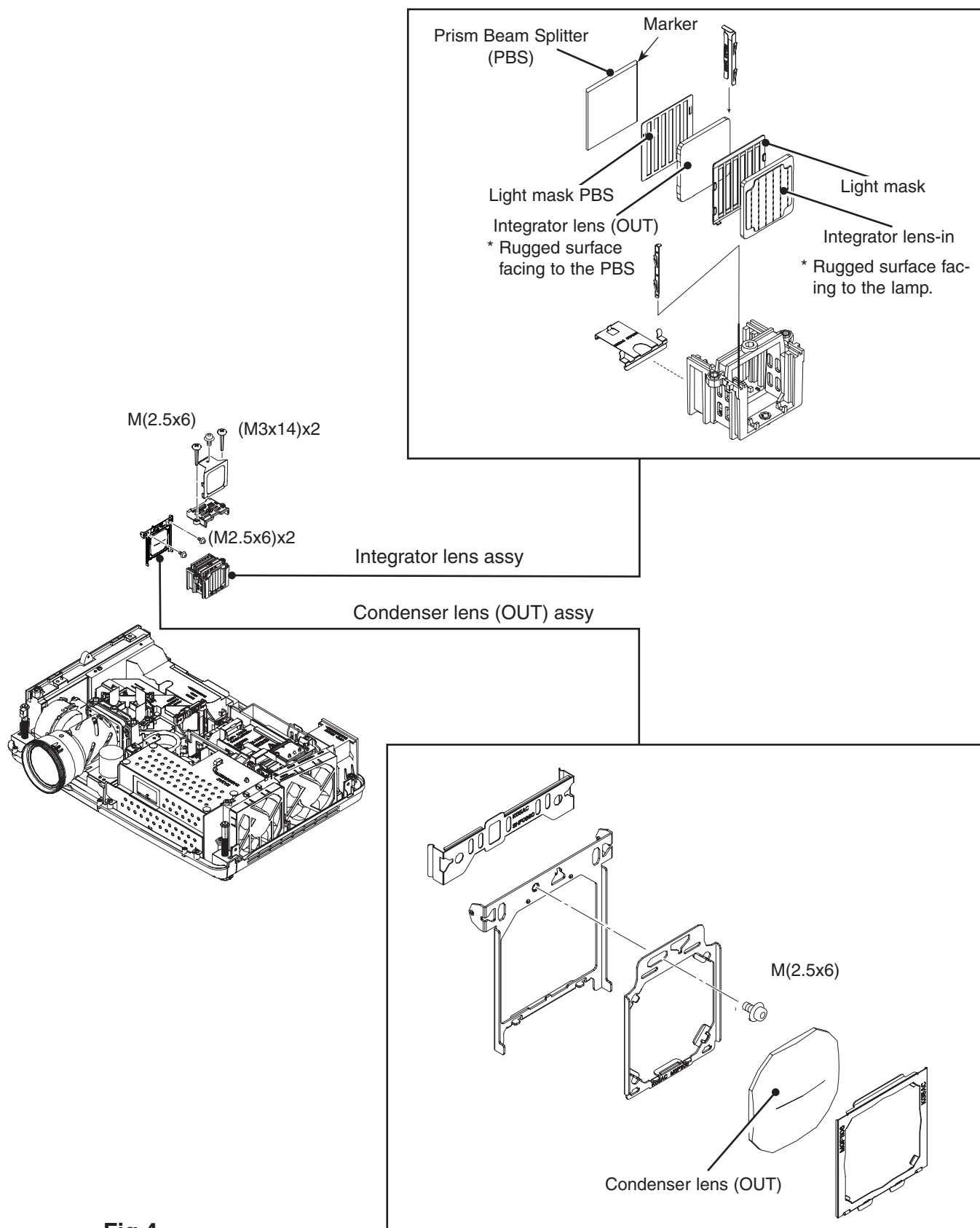


Fig.4

5. Optical unit top removal

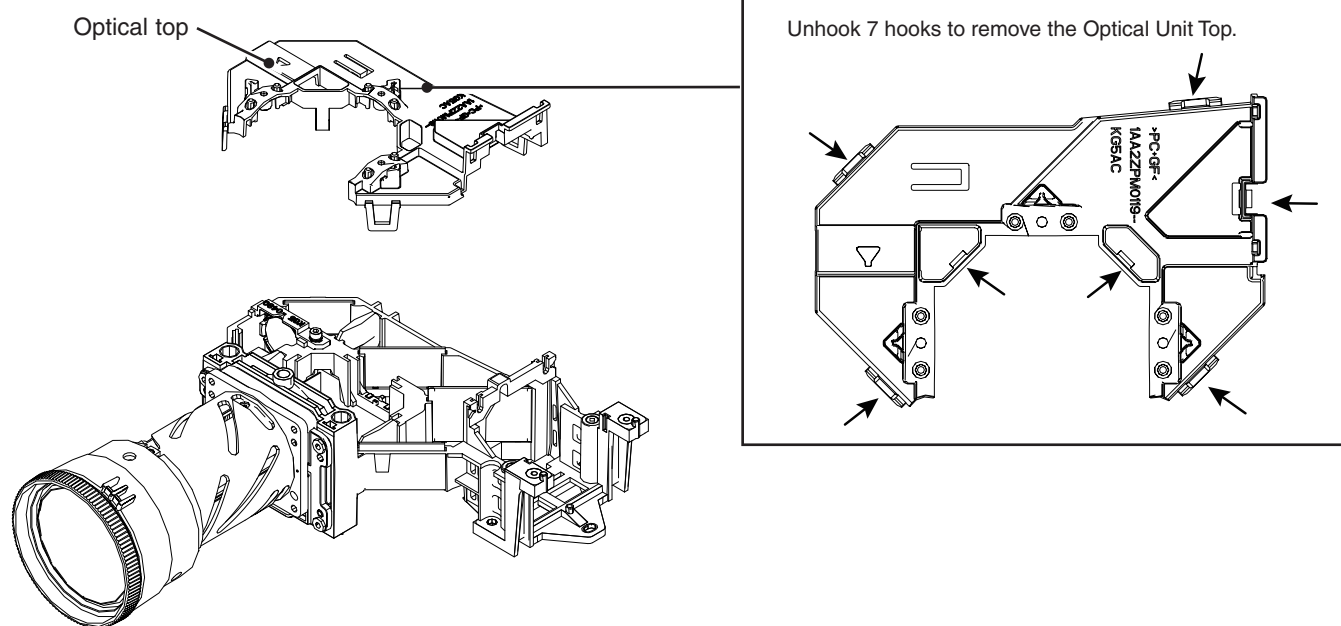


Fig.5

6. Relay lens removal

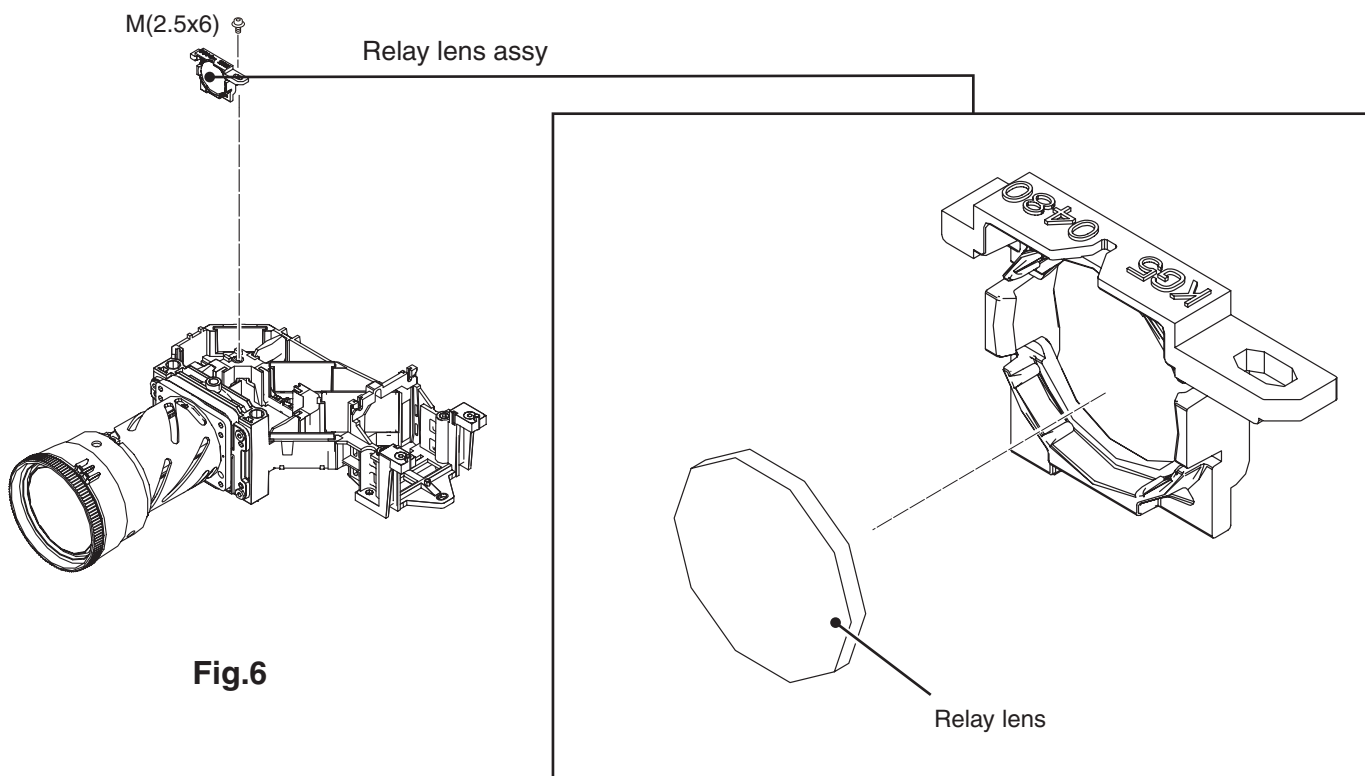


Fig.6

7. Locations and directions

When mounting or assembling the optical parts in the optical unit, the parts must be mounted in the specified location and direction as shown in figure below.

No.	Parts Name
1	Dichroic mirror (B)
2	Dichroic mirror (G)
3	Condenser lens (G)
4	Mirror (R)
5	Relay lens (IN)
6	Mirror (B)

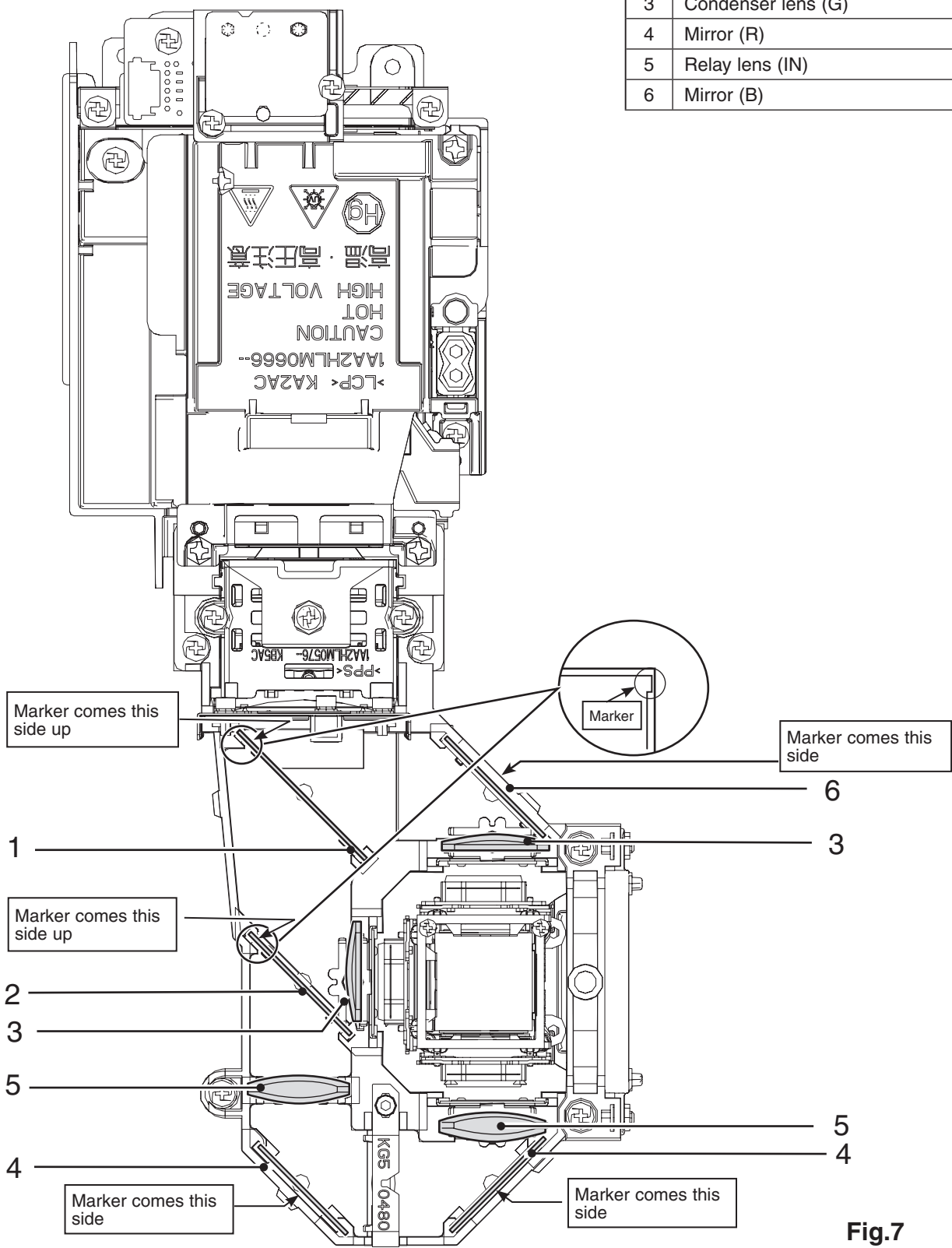


Fig.7

Servicing Notice

Note on main board replacement

Take the following workings when the main board is replaced.

Adjustment data setting

This projector stores "Color shading correction data" and "Gamma correction data" in the memory IC (IC801) on the main board. Those adjustment data have been setup according to the optical characteristics of the mounted LCD panels precisely in the factory. When replacing the main board, you need to read out the those setting data stored in the memory IC on the previous main board and write down them into the memory IC on the new main board. By this way, it enables the projector to reproduce the picture which has properly adjusted color shading correction, gamma correction. For further details, refer to the operation manual of the software [PROJECTOR SERVICE TOOL v4.20].

Serial number setting

The data of serial number is stored in both memory ICs (IC1371) and (IC1051) on the main board. "Serial number" displayed on the on-screen menu "Information" is stored in the memory IC (IC1371). The serial number for EDID is stored in the memory IC (IC1051).

After replacing the main board, perform the work below to restore the serial number.

- Use the serial no. setting tool to write the correct serial no. referring to the serial no. (S/N) printed on the rating label. For further details, refer to the operation manual of the software [SERIAL NO. SETTING TOOL v1.00].
- It is impossible to rewrite the serial number stored in the memory IC (IC1051), remove it on the previous main board and replace it on the new main board.

The projector service tool v.4.20 and serial no. setting tool v1.00 can be downloaded from the projector service web site.

Model no. setting

The data of projector's model no. is stored in both memory ICs (IC1371) and (IC1051) on the main board. The model number displayed on on-screen menu is stored in the memory IC (IC1371). The model number for EDID is stored in the memory IC (IC1051). After replacing the main board, perform the work below to restore the model number.

1. Enter the service mode.
 2. Select the Group "430 ~ 437" and No. "1", change the Data value from "0" to "10". Refer to table below. The Data value will return to "0" after setting.
 3. To check the setting, select each Group and No. "0" and check its value with table below.
- How to enter the service mode, or set the Group. No. and Data, refer to the item "Service adjustment menu operation".
- It is impossible to rewrite the model number stored in the memory IC (IC1051), remove it on the previous main board and replace it on the new main board.

Model no. setting

Model no. setting	Group	No.	Data
Not defined	430	0	※ (refer t table right)
		1	0 -> 10
PT-VX400	431	0	※ (refer t table right)
		1	0 -> 10
PT-VX400U	432	0	※ (refer t table right)
		1	0 -> 10
PT-VX400E	433	0	※ (refer t table right)
		1	0 -> 10
PT-VX400EJ	434	0	※ (refer t table right)
		1	0 -> 10
PT-VX400EA	435	0	※ (refer t table right)
		1	0 -> 10
PT-VX400EAJ	436	0	※ (refer t table right)
		1	0 -> 10
PT-BX40	437	0	※ (refer t table right)
		1	0 -> 10

Model no. chanking

Data	Model no.
0	Not defined
1	PT-VX400
2	PT-VX400U
3	PT-VX400E
4	PT-VX400EJ
5	PT-VX400EA
6	PT-VX400EAJ
7	PT-BX40

Adjustments

Adjustments after parts replacement

● : Adjustment necessary ○ : Check necessary

		Disassembly / Replaced parts							
		LCD/ prism assy	Condenser lens (OUT)	Relay lens (OUT)	Polarized glass			Power board	Main board
					R	G	B		
Optical Adjustments	Contrast adjustment	○				●			
	Optical center adjustment	○	●	●					
Electrical Adjustments	Fan voltage adjustment							●	●
	Auto calibration adjustment [PC]								○
	Auto calibration adjustment [Component]								○
	Auto calibration adjustment [Video]								○
	Common center adjustment	●							●
	Gamma correction adjustment *	●							●
	White balance adjustment	○							○
	Color shading correction adjustment *	○			○	○	○		○
	Keystone offset adjustment								●

* To setup or adjust those items, the Projector Service Tool v. 4.20 software is needed. Refer to the owner's manual for this software for the further details.

Optical Adjustments

Before taking optical adjustments below, remove the cabinet top following to the “Mechanical Disassembly”.
Adjustments require a 2.0mm hex wrench and a slot screwdriver.

Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING



CAUTION: To prevent suffer of UV radiation, those adjustment must be completed within 25 minutes.

Contrast adjustment

[Before Adjustment]

- Input a 100% of black raster signal.

- 1 Loosen a screw **A** (**Fig.1**) on the G-polarized glass mounting base.
- 2 Adjust the slot **B** to obtain the darkest brightness on the screen by using a slot screwdriver.
- 3 Tighten the screw **A** to fix the G-polarized glass mounting base.

- This adjustment should be performed in the darkest room to improve the precision of adjustment.

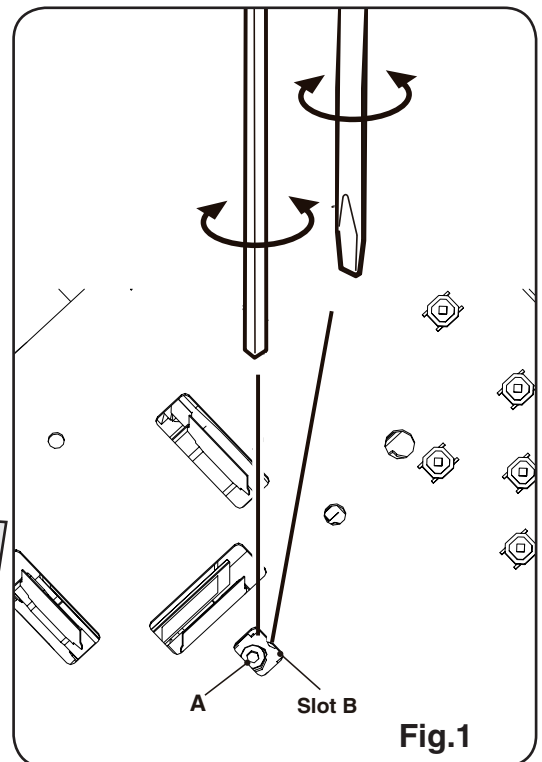
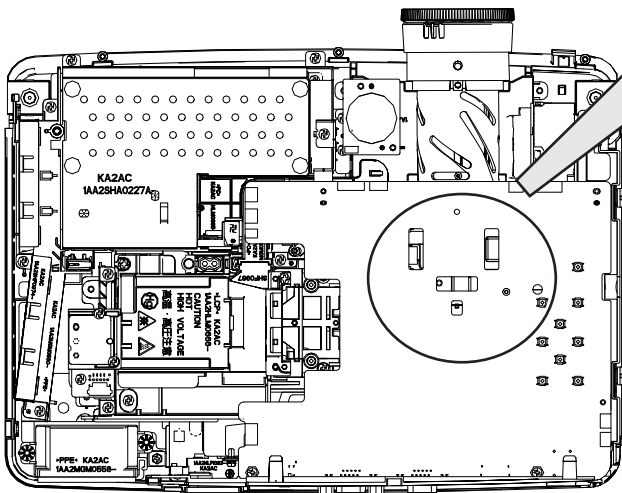


Fig.1

Optical center adjustment

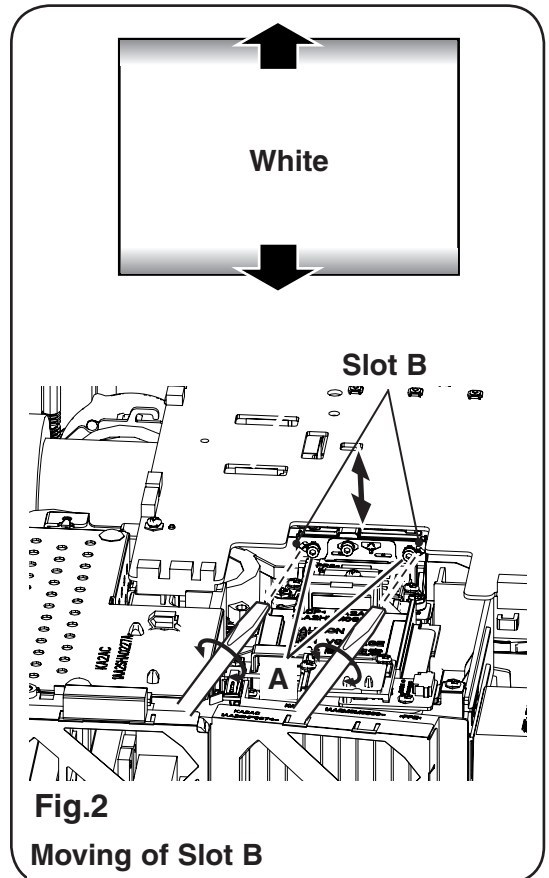
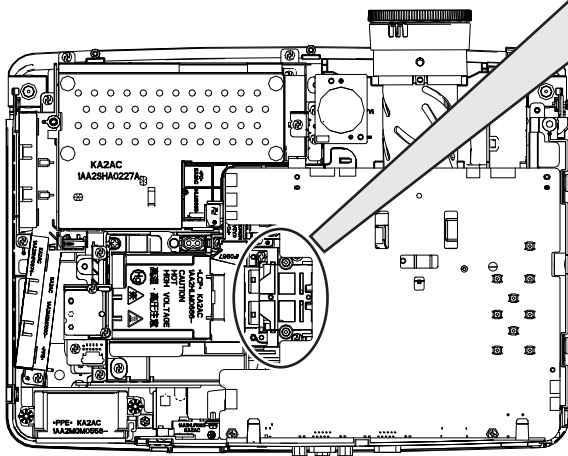
Take step-**1** to step-**3** sequentially for the optical center adjustment.

[Before Adjustment]

- Input a 100% of white raster signal.

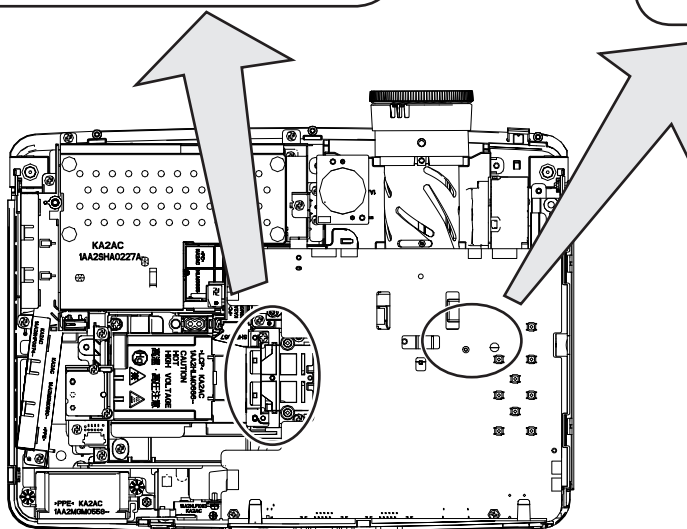
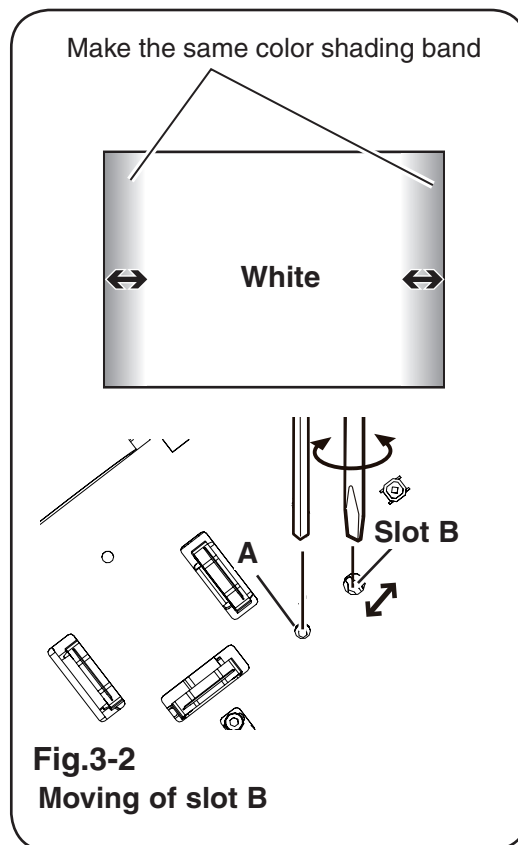
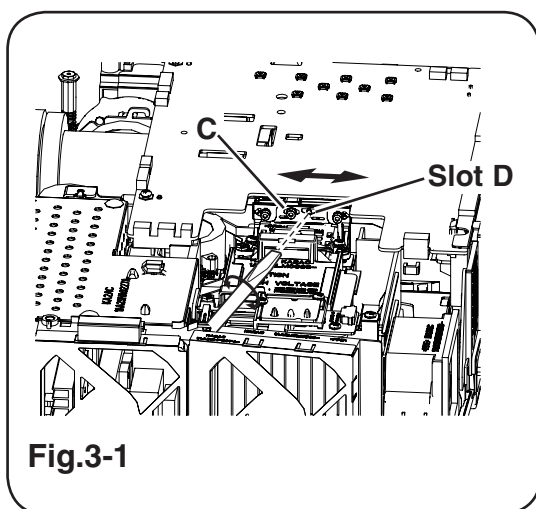
1 Condenser lens adjustment-1

- 1** Loosen 2 screws **A** on the condenser lens (OUT) base and insert a slot screwdriver into the slots **B** and turn it to disappear the color shading on the top or bottom of the screen as shown in **Fig.2**.
- 2** Tighten screws **A** to fix the condenser lens (OUT) unit.



2 Relay lens adjustment

- 1 Loosen 1 screw **C** on the condenser lens (OUT) base and insert a slot screwdriver into the slots **D** and turn it to show the color shading on the both left and right of the screen as shown in **Fig.3-1**.
- 2 Loosen 1 screw **A** on the relay lens (OUT) base and insert a slot screwdriver into the slots **B** and turn it to make the same band of color shading on the left and right of the screen as shown in **Fig.3-2**.
- 3 Tighten the screw **A** to fix the relay lens unit.



3 Condenser lens adjustment-2

- 1 Loosen 1 screw **C** on the condenser lens (OUT) base and insert a slot screwdriver into the slots **D** and turn it to disappear the color shading on the left and right of the screen as shown in **Fig.4**.
- 2 Tighten screw **C** to fix the condenser lens (OUT) unit.

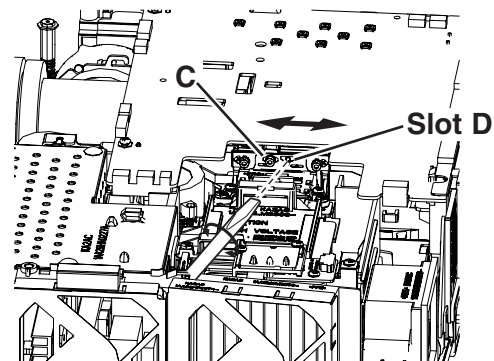
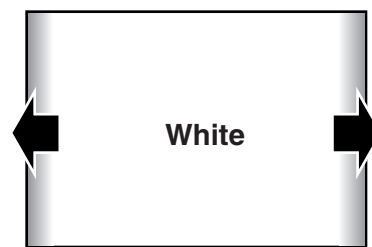
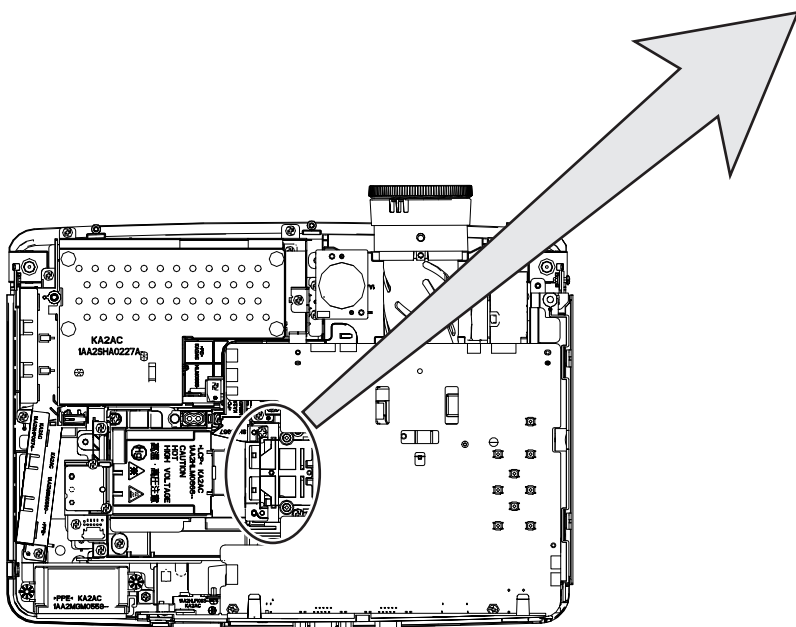


Fig.4
Moving of Slot D

Electrical Adjustments

Service adjustment menu operation

To enter the service mode

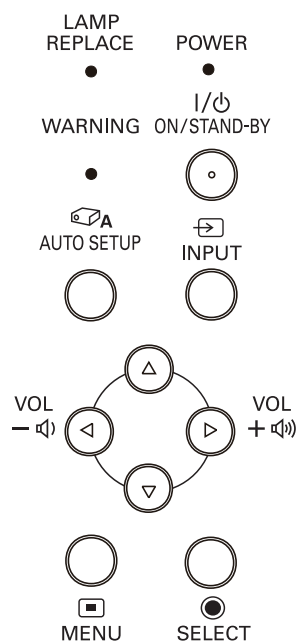
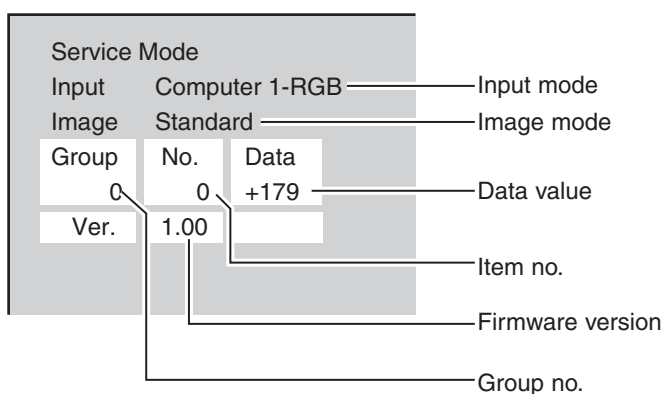
To enter the “Service mode”, press and hold the **MENU button** and **SELECT button** on the projector for more than 3 seconds or press and hold the **MENU button** on the remote control for more than 20 seconds. The service menu appears on the screen as follows.

To adjust service data

Select the adjustment group no. by pressing the **MENU button** (increase) or **SELECT button** (decrease), and select the adjustment item no. by pressing the pointer **▲** or **▼ button**, and change the data value by pressing the **◀** or **▶ button**. Refer to the “Service adjustment data table” for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **ON/STAND-BY button**.




Circuit adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety. Before adjustment, please turn on the projector for more than ten minutes.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.

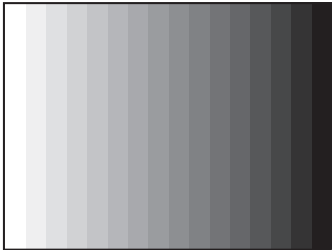


CAUTION:
To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

[Adjustment Condition]

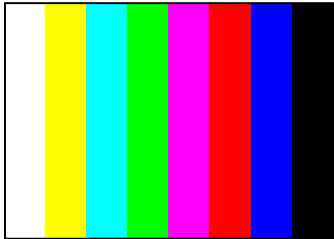
- Input signal
 - Computer signal.....0.7Vp-p/75Ω terminated (XGA)
 - Video signal1.0Vp-p/75Ω terminated (Composite video signal)
 - Component video signal1.0Vp-p/75Ω terminated (Component video signal) (480i)

16 steps gray scale pattern



White 100% White 0%

8 color 100% full color bar



W Y C G M R B BK
White 100% White 0%

● Image modeStandard mode unless otherwise noted.

Note:

* Please refer to “Service adjustment menu operation” for entering the service mode and adjusting the service data.

Electrical Adjustments

1. Fan voltage adjustment

Equipment Digital voltmeter

1. Enter the service mode.
2. Adjust the voltage on each test point by changing the data values of Group - No.

Group - No.	Test Points	Adjustment value
250 - 0	TPFANA	4.0 ±0.1Vdc
250 - 1	TPFANA	13.5 ±0.1Vdc
250 - 2	TPFANB	5.2 ±0.1Vdc
250 - 3	TPFANB	13.5 ±0.1Vdc
250 - 4	TPFANC	3.5 ±0.1Vdc
250 - 5	TPFANC	12.0 ±0.1Vdc

Adjustments item no. [2] and [4] are carried out at the spare parts shipment in the factory, therefore they are not required when the main board is replaced with new one.

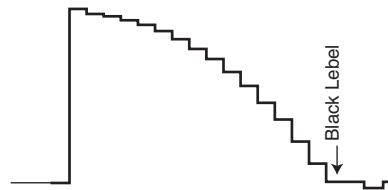
Below adjustments are performed when the above auto calibration is failed.

Pedestal adjustment [PC]

Equipment Oscilloscope

1. Enter the service mode.
2. Adjust the black level on each test point to be minimum by changing the data value of Group - No.

Group - No.	Test Points
0 - 0	TP35G
0 - 1	TP35R
0 - 2	TP35B



2. Auto calibration adjustment [PC]

Input mode Computer 1 (RGB)
Input signal XGA Computer signal
Signal pattern 16-step gray scale

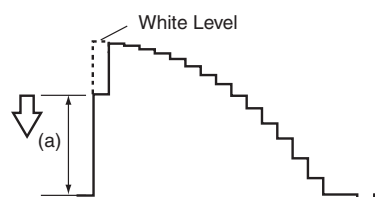
1. Enter the service mode.
2. Select Group "**260**", No. "**0**" and set the data value to "**1**".
The projector begins auto-calibration and then "OK" will appear on the screen.

Gain adjustment [PC]

Equipment Oscilloscope

1. Enter the service mode.
2. Adjust the amplitude "**a**" of waveform at each test point to be minimum by changing the data value of Group - No.

Group - No.	Test Points
0 - 3	TP35G
0 - 4	TP35R
0 - 5	TP35B



3. Auto calibration adjustment [Component]

Input mode	Computer 1 (Component)
Input signal	480i component signal
Signal pattern	8 color bar

1. Enter the service mode
2. Select Group **"260"**, No. **"0"** and set the data value to **"1"**.
The projector begins auto-calibration and then "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

4. Auto calibration adjustment [Video]

Input mode	Video
Input signal	Composite video signal
Signal pattern	16-step gray scale

1. Enter the service mode.
2. Select Group **"260"**, No. **"0"** and then change data value from **"0"** to **"1"**. After the auto-calibration completed, "OK" will appear on the screen.

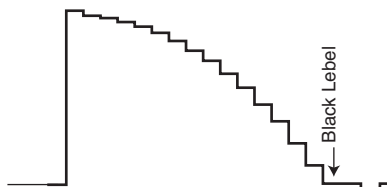
Below adjustment is performed when the above auto calibration is failed.

Pedestal adjustment [Component]

Equipment Oscilloscope

1. Enter the service mode.
2. Adjust the black level on each test point to be minimum by changing the data value of Group - No.

Group - No.	Test Points
0 - 0	TP35G
0 - 1	TP35R
0 - 2	TP35B

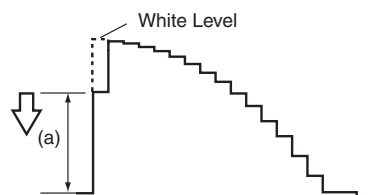


Gain adjustment [Vodeo]

Equipment Oscilloscope

1. Enter the service mode.
2. Adjust the amplitude **"a"** of waveform at each test point to be minimum by changing the data value of Group - No.

Group - No.	Test Points
20 - 0	TP35G

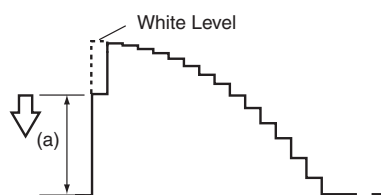


Gain adjustment [Component]

Input mode	Computer 1 (Component)
Input signal	480i component signal
Signal pattern	16-step gray scale
Equipment	Oscilloscope

1. Enter the service mode.
2. Adjust the amplitude **"a"** of waveform at each test point to be minimum by changing the data value of Group - No.

Group - No.	Test Points
0 - 3	TP35G



5. Common center adjustment

Input mode	Computer 1 (RGB)
Input signal	XGA computer signal
Signal patterns	50% R, G, B whole signals

1. Enter the service mode
2. Select Group **"100"**, No. **"92"** and change the data value to **"2"** to reduce the panel frequency.
3. Change data value to obtain the minimum flicker for each color on the screen.

Group - No.	Adjustment
101 - 1	for green flicker
101 - 0	for red flicker
101 - 2	for blue flicker

4. Select Group **"100"**, No. **"92"** and change the data value to **"0"** to reset the panel frequency.

6. Gamma correction adjustment

Software PROJECTOR SERVICE TOOL v4.20

Use the software to obtain the proper gray scale of the screen. See the further information of the software instruction manual.

7. White balance adjustment

Input mode	Computer 1 (RGB)
Input signal	XGA computer signal
Signal patterns	16-step gray scale

1. Enter the service mode,
2. Input PC analog signal. Select Group “**100**” No. “**7**” (Red) or “**8**” (Blue) and change data values respectively to make a proper white balance.

8. Color shading correction adjustment

Software PROJECTOR SERVICE TOOL v4.20

Signal pattern 6%, 13%, 30%, 60% whole gray

Use the software to correct the color shading of the screen. See the further information of the software instruction manual.

The color shading correction adjustment for this model should be performed with the whole-gray patterns specified as above.

Corresponding to the pull-down menu of the gray level selector on the software.

Level 0	: 6%
Level 384	: 13%
Level 640	: 30%
Level 1032	: 60%

Relation of level (%) indication and signal pattern

0%	: Black
100%	: White

9. Keystone offset adjustment

Input signal	no signal
--------------	-----------

1. Put the projector on a horizontal place with the adjustable feet being minimum range and then enter the service mode.
2. Select Group “**102**”, No. “**3**” and set data value from “**0**” to “**5**”.
3. By pressing the **SELECT** button, the Keystone Offset adjustment will start.
4. When it has completed, the “**OK**” message will appear on the screen.
5. By pressing any button on the projector or the remote control, the “**OK**” message will disappear. (Data value of Group “**102**”, No. “**3**” will be back to “**0**” for initial value.)

Service adjustment data

The adjustment items indicated with “*” are required to readjust following to the “Electrical adjustments”. Other items should be used with the initial data value.

Group/Item	Item Name	Function	Initial	Range	Note
Group 0 AD Converter (PW190)					
0	ADC G-OFFSET	PC / Component / SCART	128/120/128	0 - 255	* G-Pedestal Adjustment
1	ADC R-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* R-Pedestal Adjustment
2	ADC B-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* B-Pedestal Adjustment
3	ADC G-GAIN	PC / Component / SCART	50/50/50	0 - 255	* G-Gain Adjustmen
4	ADC R-GAIN	PC / Component / SCART	40/40/40	0 - 255	* R-Gain Adjustmen
5	ADC B-GAIN	PC / Component / SCART	40/40/40	0 - 255	* B-Gain Adjustmen
6	GRAAFLTR/RBAAFLTR	Green (Red and Blue) Anti-Alias Filter	4 / R / R	0 - 7	Composite & S-Video / Component / PC *R: Read only value
7	GRNAADWNSMPL / RBAADWNSMPL	Green (Red and Blue) Anti-Alias Downsample	0 / R / R	0 - 3	
8	GRNAAHF / RBAAHF	Green (Red and Blue) Anti-Alias High Frequency	3 / R / R	0 - 3	
10	SOGTH	PC / Component / SCART SyncOn Green Threould	6 / 4 / 4	0 - 15	
11	SOGHYSDIS	PC / Component / SCART Sync On Green Hsysterisis Enable	0	0 - 1	
12	HS1TH		4	0 - 7	
13	HS0TH		4	0 - 7	
100	PreCoast PC Signal		3	0 - 63	
101	PostCoast PC Signal		8	0 - 63	
120	PreCoast PC Video 480i		7	0 - 63	
121	PostCoast PC Video 480i		13	0 - 63	
122	PreCoast PC Video 575i		7	0 - 63	
123	PostCoast PC Video 575i		13	0 - 63	
124	PreCoast PC Video 480p		7	0 - 63	
125	PostCoast PC Video 480p		13	0 - 63	
126	PreCoast PC Video 575p		7	0 - 63	
127	PostCoast PC Video 575p		13	0 - 63	
128	PreCoast PC Video 720p 60Hz		7	0 - 63	
129	PostCoast PC Video 720p 60Hz		13	0 - 63	
130	PreCoast PC Video 720p 50Hz		7	0 - 63	
131	PostCoast PC Video 720p 50Hz		13	0 - 63	
132	PreCoast PC Video 1080i 60Hz		7	0 - 63	
133	PostCoast PC Video 1080i 60Hz		13	0 - 63	
134	PreCoast PC Video 1080i 50Hz		7	0 - 63	
135	PostCoast PC Video 1080i 50Hz		13	0 - 63	
136	PreCoast PC Video 1035i		7	0 - 63	
137	PostCoast PC Video 1035i		13	0 - 63	
138	PreCoast PC Video 1080p 60Hz		7	0 - 63	
139	PostCoast PC Video 1080p 60Hz		13	0 - 63	
140	PreCoast PC Video 1080p 50Hz		7	0 - 63	
141	PostCoast PC Video 1080p 50Hz		13	0 - 63	
142	PreCoast PC Video 1080p 30Hz		7	0 - 63	
143	PostCoast PC Video 1080p 30Hz		13	0 - 63	
144	PreCoast PC Video 1080p 25Hz		7	0 - 63	
145	PostCoast PC Video 1080p 25Hz		13	0 - 63	
146	PreCoast PC Video 1080p 24Hz		7	0 - 63	
147	PostCoast PC Video 1080p 24Hz		13	0 - 63	
150	PreCoast YCbCr 480i		7	0 - 63	
151	PostCoast YCbCr 480i		13	0 - 63	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
152	PreCoast YCbCr 575i		7	0 - 63	
153	PostCoast YCbCr 575i		13	0 - 63	
154	PreCoast YCbCr 480p		7	0 - 63	
155	PostCoast YCbCr 480p		13	0 - 63	
156	PreCoast YCbCr 575p		7	0 - 63	
157	PostCoast YCbCr 575p		13	0 - 63	
158	PreCoast YCbCr 720p 60Hz		7	0 - 63	
159	PostCoast YCbCr 720p 60Hz		13	0 - 63	
160	PreCoast YCbCr 720p 50Hz		7	0 - 63	
161	PostCoast YCbCr 720p 50Hz		13	0 - 63	
162	PreCoast YCbCr 1080i 60Hz		7	0 - 63	
163	PostCoast YCbCr 1080i 60Hz		13	0 - 63	
164	PreCoast YCbCr 1080i 50Hz		7	0 - 63	
165	PostCoast YCbCr 1080i 50Hz		13	0 - 63	
166	PreCoast YCbCr 1035i		7	0 - 63	
167	PostCoast YCbCr 1035i		13	0 - 63	
180	PreCoast SCART 480i		7	0 - 63	
181	PostCoast SCART 480i		13	0 - 63	
182	PreCoast SCART 575i		7	0 - 63	
183	PostCoast SCART 575i		13	0 - 63	
Group 10	Sync Processor				
0	SYNCAMPHLCKTOLW	Minimum sync amplitude threshold for HLCK 1 to 0 transition	1792	0 - 9999	
1	SYNCAMPHLCKTOHI	Minimum sync amplitude threshold for HLCK 0 to 1 transition	4096	0 - 9999	
Group 20	Video Decoder				
0	Y Level	Composite / S-Video - Y Level (ADC RGB Gain)	10 / 10	0 - 255	Composite / S-Video * Gain Adjustment [Video]
1	C Level	Composite / S-Video - C Level (ADC Saturation)	115 / 115	0 - 255	Composite / S-Video
3	XCXL Level	Cross-Chroma, Cross-Luma Level	3	0 - 5	
4	C2DNBANDWIDTH	Comb 2D Narrow Bandwidth	3 / 3	0 - 3	NTSC/PAL
5	C2DWBANDWIDTH	Comb 2D Wide Bandwidth	4 / 4	0 - 7	NTSC/PAL
6	C2DCNMINLEAK	Comb 2D Chroma Narrow Band Minimum Leakage	0 / 3	0 - 3	Left Values are adjustable if CXCL Level = 5.
7	C2DCNSLOPELEAK	Comb 2D Narrow Band Slope Leakage	7 / 7	0 - 7	NTSC/PAL
8	C2DCWMINLEAK	Comb 2D Wide Band Minimum Leakage	1 / 3	0 - 3	NTSC/PAL
9	C2DCWSLOPELEAK	Comb 2D CW Slope Leakage	6 / 6	0 - 7	NTSC/PAL
10	COMBLEAK2BPGAIN	Comb Leak To Ban Pass Gain	1 / 0	0 - 3	NTSC/PAL
11	C2DBDIAGONALGAIN	Comb 2D Band Pass Diagonal Gain	1 / 3	0 - 3	NTSC/PAL
12	C2DNBCWBCLGAIN	Comb 2D Narrow Band Comb Wide Band Comb	1 / 1	0 - 3	NTSC/PAL
13	RLUMASETUP-Enable	7.5IRE Setup Enable	0	0 - 1	Effective only NTSC Signal
Group 40	General				
0	IP Mode	Sets for IP Off	1	0 - 1	0: IP Block not used 1: IP OFF used with IP Block
1	3:2 PullDown Mode		1	1 - 3	bit0 : Global Motion bit1 : Video Motion
2	Detect Film Mode Enable		0	0 - 2	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down
3	Force IP Mode		2	0 - 2	0 : IP Process Disable 1 : Force Normal IP Mode 2 : Force Film Mode Effective only for PSF Signal.
Group 41	Deinterlacer setting Effective only for Progressive ON-L1 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	Effective only NTSC Signal
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
Group 42	Deinterlacer setting Effective only for Progressive ON-L2 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	0	0 - 255	
1	Angle Interpolation Level	0 : Conservative <=====> 4 : Aggressive	2	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 43	Deinterlacer setting Effective only for Progressive ON/Film mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <=====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 45	Noise Reduction (Time) Effective only for N.R - Off				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	0	0 - 255	
Group 47	Noise Reduction (Time) Effective only for N.R L1				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	50	0 - 255	
Group 49	Noise Reduction (Time) Effective only for N.R L2				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 50	2:2pull down setting				
0	22Film Mode Sensitivity	Film Detection Sensitivity <FILMSTVT22>	4	1 - 5	
1	22Film Mode Threshold Low	<FILMTHRD22A>	80	0 - 32767	
2	22Film Mode Threshold High	<FILMTHRD22B>	120	0 - 32767	
3	VOFTHR13	<VOFTHR13>	124	0 - 1023	Read only
4	VOFTHR12	<VOFTHR12>	124	0 - 1023	Read only
5	VOFTHR23	<VOFTHR23>	124	0 - 1023	Read only
6	Video Motion Window Start X	<VOFSTARX>	10	0 - 2047	Range of detective for Film mode
7	Video Motion Window Stop X	<VOFSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Video Motion Window Start Y	<VOFSTARY>	10	0 - 1023	Range of detective for Film mode
9	Video Motion Window Stop Y	<VOFSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 51	2:3pull down setting				
0	Global Motion Sensitivity	Film Detection Sensitivity <FILMSTVT23>	4	1 - 5	
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	4	1 - 5	

27. Stammasen	1	3
---------------	---	---

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
25	REF_GatePos		6	0-1023	
26	REF_GateDur		169	0-1023	
27	R-BasePos		3	0-15	
28	G-BasePos		3	0-15	
29	B-BasePos		3	0-15	
30	RGB-Adjust		0	0-7	
31	RGB-AdjLv		0	0-4095	Operation STEP=256[0<->256<->512<->768<->1023]
32	LineR0		0	0-1023	(MIN<-->MAX Cyclic Operation)
33	LineR1		0	0-1023	(MIN<-->MAX Cyclic Operation)
34	LineR2		0	0-1023	(MIN<-->MAX Cyclic Operation)
35	LineR3		0	0-1023	(MIN<-->MAX Cyclic Operation)
36	LineR4		0	0-1023	(MIN<-->MAX Cyclic Operation)
37	LineG0		0	0-1023	(MIN<-->MAX Cyclic Operation)
38	LineG1		0	0-1023	(MIN<-->MAX Cyclic Operation)
39	LineG2		0	0-1023	(MIN<-->MAX Cyclic Operation)
40	LineG3		0	0-1023	(MIN<-->MAX Cyclic Operation)
41	LineG4		0	0-1023	(MIN<-->MAX Cyclic Operation)
42	LineB0		0	0-1023	(MIN<-->MAX Cyclic Operation)
43	LineB1		0	0-1023	(MIN<-->MAX Cyclic Operation)
44	LineB2		0	0-1023	(MIN<-->MAX Cyclic Operation)
45	LineB3		0	0-1023	(MIN<-->MAX Cyclic Operation)
46	LineB4		0	0-1023	(MIN<-->MAX Cyclic Operation)
47	GhostR-Pos		8	0-31	
48	GhostG-Pos		8	0-31	
49	GhostB-Pos		8	0-31	
50	GhostR-Cent		0	0-2047	
51	GhostR-Start		128	0-255	
52	GhostR-End		128	0-255	
53	GhostG-Cent		0	0-2047	
54	GhostG-Start		128	0-255	
55	GhostG-End		128	0-255	
56	GhostB-Cent		0	0-2047	
57	GhostB-Start		128	0-255	
58	GhostB-End		128	0-255	
59	BlockR1		0	0-2047	(MIN<-->MAX Cyclic Operation)
60	BlockG1		0	0-2047	(MIN<-->MAX Cyclic Operation)
61	BlockB1		0	0-2047	(MIN<-->MAX Cyclic Operation)
62	BlockR2		0	0-2047	(MIN<-->MAX Cyclic Operation)
63	BlockG2		0	0-2047	(MIN<-->MAX Cyclic Operation)
64	BlockB2		0	0-2047	(MIN<-->MAX Cyclic Operation)
65	ReverseR		0	0-2047	(MIN<-->MAX Cyclic Operation)
66	ReverseG		0	0-2047	(MIN<-->MAX Cyclic Operation)
67	ReverseB		0	0-2047	(MIN<-->MAX Cyclic Operation)
68	BackCrossR-Cent		0	0-2047	
69	BackCrossR-Start		128	0-255	
70	BackCrossR-End		128	0-255	
71	BackCrossG-Cent		0	0-2047	
72	BackCrossG-Start		128	0-255	
73	BackCrossG-End		128	0-255	
74	BackCrossBR-Cent		0	0-2047	
75	BackCrossB-Start		128	0-255	
76	BackCrossB-End		128	0-255	
77	ColshdSelect		1	0-1	
78	R-Min		312	0-1023	
79	R-Mid2		365	0-1023	
80	R-Mid1		439	0-1023	
81	R-Max		534	0-1023	
82	G-Min		240	0-1023	
83	G-Mid2		331	0-1023	
84	G-Mid1		414	0-1023	
85	G-Max		498	0-1023	
86	B-Min		261	0-1023	
87	B-Mid2		334	0-1023	
88	B-Mid1		411	0-1023	
89	B-Max		495	0-1023	
90	H-OutPos		109	0-2047	
91	OutAreaLv		2048	0-4095	
92	FlickerAdj		0	0/2	
93	FRC_Bit		3	0-3	
94	FrontCTalkR-Cent		0	0-2047	
95	FrontCTalkR-Start		128	0-255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
96	FrontCTalkR-End		128	0-255	
97	FrontCTalkG-Cent		0	0-2047	
98	FrontCTalkG-Start		128	0-255	
99	FrontCTalkG-End		128	0-255	
100	FrontCTalkB-Cent		0	0-2047	
101	FrontCTalkB-Start		128	0-255	
102	FrontCTalkB-End		128	0-255	
103	R-DCOffset-NGain		0	0-1023	Scan Direction (Front/Rear)
104	R-DCOffset-N1		16	0-2047	Scan Direction (Front/Rear)
105	R-DCOffset-N2		0	0-2047	Scan Direction (Front/Rear)
106	R-DCOffset-N3		0	0-2047	Scan Direction (Front/Rear)
107	R-DCOffset-N4		0	0-2047	Scan Direction (Front/Rear)
108	R-DCOffset-N5		0	0-2047	Scan Direction (Front/Rear)
109	R-DCOffset-N6		0	0-2047	Scan Direction (Front/Rear)
110	R-DCOffset-N7		0	0-2047	Scan Direction (Front/Rear)
111	R-DCOffset-N8		0	0-2047	Scan Direction (Front/Rear)
112	R-DCOffset-N9		0	0-2047	Scan Direction (Front/Rear)
113	R-DCOffset-N10		0	0-2047	Scan Direction (Front/Rear)
114	R-DCOffset-N11		0	0-2047	Scan Direction (Front/Rear)
115	R-DCOffset-N12		32	0-2047	Scan Direction (Front/Rear)
116	G-DCOffset-NGain		0	0-1023	Scan Direction (Front/Rear)
117	G-DCOffset-N1		16	0-2047	Scan Direction (Front/Rear)
118	G-DCOffset-N2		0	0-2047	Scan Direction (Front/Rear)
119	G-DCOffset-N3		0	0-2047	Scan Direction (Front/Rear)
120	G-DCOffset-N4		0	0-2047	Scan Direction (Front/Rear)
121	G-DCOffset-N5		0	0-2047	Scan Direction (Front/Rear)
122	G-DCOffset-N6		0	0-2047	Scan Direction (Front/Rear)
123	G-DCOffset-N7		0	0-2047	Scan Direction (Front/Rear)
124	G-DCOffset-N8		0	0-2047	Scan Direction (Front/Rear)
125	G-DCOffset-N9		0	0-2047	Scan Direction (Front/Rear)
126	G-DCOffset-N10		0	0-2047	Scan Direction (Front/Rear)
127	G-DCOffset-N11		0	0-2047	Scan Direction (Front/Rear)
128	G-DCOffset-N12		32	0-2047	Scan Direction (Front/Rear)
129	B-DCOffset-NGain		0	0-1023	Scan Direction (Front/Rear)
130	B-DCOffset-N1		16	0-2047	Scan Direction (Front/Rear)
131	B-DCOffset-N2		0	0-2047	Scan Direction (Front/Rear)
132	B-DCOffset-N3		0	0-2047	Scan Direction (Front/Rear)
133	B-DCOffset-N4		0	0-2047	Scan Direction (Front/Rear)
134	B-DCOffset-N5		0	0-2047	Scan Direction (Front/Rear)
135	B-DCOffset-N6		0	0-2047	Scan Direction (Front/Rear)
136	B-DCOffset-N7		0	0-2047	Scan Direction (Front/Rear)
137	B-DCOffset-N8		0	0-2047	Scan Direction (Front/Rear)
138	B-DCOffset-N9		0	0-2047	Scan Direction (Front/Rear)
139	B-DCOffset-N10		0	0-2047	Scan Direction (Front/Rear)
140	B-DCOffset-N11		0	0-2047	Scan Direction (Front/Rear)
141	B-DCOffset-N12		32	0-2047	Scan Direction (Front/Rear)
142	R-DCOffset-PGain		0	0-1023	Scan Direction (Front/Rear)
143	R-DCOffset-P1		0	0-2047	Scan Direction (Front/Rear)
144	R-DCOffset-P2		0	0-2047	Scan Direction (Front/Rear)
145	R-DCOffset-P3		0	0-2047	Scan Direction (Front/Rear)
146	R-DCOffset-P4		0	0-2047	Scan Direction (Front/Rear)
147	R-DCOffset-P5		0	0-2047	Scan Direction (Front/Rear)
148	R-DCOffset-P6		0	0-2047	Scan Direction (Front/Rear)
149	R-DCOffset-P7		0	0-2047	Scan Direction (Front/Rear)
150	R-DCOffset-P8		0	0-2047	Scan Direction (Front/Rear)
151	R-DCOffset-P9		0	0-2047	Scan Direction (Front/Rear)
152	R-DCOffset-P10		0	0-2047	Scan Direction (Front/Rear)
153	R-DCOffset-P11		0	0-2047	Scan Direction (Front/Rear)
154	R-DCOffset-P12		2016	0-2047	Scan Direction (Front/Rear)
155	G-DCOffset-PGain		0	0-1023	Scan Direction (Front/Rear)
156	G-DCOffset-P1		0	0-2047	Scan Direction (Front/Rear)
157	G-DCOffset-P2		0	0-2047	Scan Direction (Front/Rear)
158	G-DCOffset-P3		0	0-2047	Scan Direction (Front/Rear)
159	G-DCOffset-P4		0	0-2047	Scan Direction (Front/Rear)
160	G-DCOffset-P5		0	0-2047	Scan Direction (Front/Rear)
161	G-DCOffset-P6		0	0-2047	Scan Direction (Front/Rear)
162	G-DCOffset-P7		0	0-2047	Scan Direction (Front/Rear)
163	G-DCOffset-P8		0	0-2047	Scan Direction (Front/Rear)
164	G-DCOffset-P9		0	0-2047	Scan Direction (Front/Rear)
165	G-DCOffset-P10		0	0-2047	Scan Direction (Front/Rear)
166	G-DCOffset-P11		0	0-2047	Scan Direction (Front/Rear)
167	G-DCOffset-P12		2016	0-2047	Scan Direction (Front/Rear)

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
168	B-DCOffset-PGain		0	0-1023	Scan Direction (Front/Rear)
169	B-DCOffset-P1		0	0-2047	Scan Direction (Front/Rear)
170	B-DCOffset-P2		0	0-2047	Scan Direction (Front/Rear)
171	B-DCOffset-P3		0	0-2047	Scan Direction (Front/Rear)
172	B-DCOffset-P4		0	0-2047	Scan Direction (Front/Rear)
173	B-DCOffset-P5		0	0-2047	Scan Direction (Front/Rear)
174	B-DCOffset-P6		0	0-2047	Scan Direction (Front/Rear)
175	B-DCOffset-P7		0	0-2047	Scan Direction (Front/Rear)
176	B-DCOffset-P8		0	0-2047	Scan Direction (Front/Rear)
177	B-DCOffset-P9		0	0-2047	Scan Direction (Front/Rear)
178	B-DCOffset-P10		0	0-2047	Scan Direction (Front/Rear)
179	B-DCOffset-P11		0	0-2047	Scan Direction (Front/Rear)
180	B-DCOffset-P12		2016	0-2047	Scan Direction (Front/Rear)
181	ENBX-R		0	0-127	
182	ENBX-G		0	0-127	
183	ENBX-B		0	0-127	
184	DXOutPos		0	0-1	
185	R_V_INPUT_SETP_0		0	0-1023	
186	R_V_INPUT_SETP_512		0	0-1023	
187	R_V_INPUT_SETP_1024		0	0-1023	
188	R_V_INPUT_SETP_1536		0	0-1023	
189	R_V_INPUT_SETP_2048		0	0-1023	
190	R_V_INPUT_SETP_2560		0	0-1023	
191	R_V_INPUT_SETP_3072		0	0-1023	
192	R_V_INPUT_SETP_3584		0	0-1023	
193	R_V_INPUT_SETP_4096		0	0-1023	
194	G_V_INPUT_SETP_0		0	0-1023	
195	G_V_INPUT_SETP_512		0	0-1023	
196	G_V_INPUT_SETP_1024		0	0-1023	
197	G_V_INPUT_SETP_1536		0	0-1023	
198	G_V_INPUT_SETP_2048		0	0-1023	
199	G_V_INPUT_SETP_2560		0	0-1023	
200	G_V_INPUT_SETP_3072		0	0-1023	
201	G_V_INPUT_SETP_3584		0	0-1023	
202	G_V_INPUT_SETP_4096		0	0-1023	
203	B_V_INPUT_SETP_0		0	0-1023	
204	B_V_INPUT_SETP_512		0	0-1023	
205	B_V_INPUT_SETP_1024		0	0-1023	
206	B_V_INPUT_SETP_1536		0	0-1023	
207	B_V_INPUT_SETP_2048		0	0-1023	
208	B_V_INPUT_SETP_2560		0	0-1023	
209	B_V_INPUT_SETP_3072		0	0-1023	
210	B_V_INPUT_SETP_3584		0	0-1023	
211	B_V_INPUT_SETP_4096		0	0-1023	
212	ERPPOL		84	0-4095	
213	FRP_POS		32	0-255	
214	SWAP		1296	0-2047	
215	PRE_COLSHD_SEL		0	0-255	
216	HSYNC_FFLOW		0	0-1	
217	DELAY_HSYNC		0	0-2047	
218	DELAY_VSYNC		0	0-255	
219	VSYNC_FOLLOW		0	0-1	
220	BLANK_RCENTER		0	0-2047	
221	BLANK_RSTART		128	0-255	
222	BLANK_REND		128	0-255	
223	BLANK_GCENTER		0	0-2047	
224	BLANK_GSTART		128	0-255	
225	BLANK_GEND		128	0-255	
226	BLANK_BCENTER		0	0-2047	
227	BLANK_BSTART		128	0-255	
228	BLANK_BEND		128	0-255	
229	Output limit R		4095	0-4095	
230	Output limit G		4095	0-4095	
231	Output limit B		4095	0-4095	
232	CROSSTALK_COEF_R		1023	0-1023	
233	CROSSTALK_COEF_G		1023	0-1023	
234	CROSSTALK_COEF_B		1023	0-1023	
235	LCCON_ENABLE		0	0-1	
236	ENBY_L1		11	0-255	
237	ENBY_H1		670	0-1023	
238	ENBY_L2		11	0-255	
239	ENBY_H2		670	0-1023	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
Group 101	Panel Service(6200)				
0	R_LCCOM		0	0-255	* Common center Adjustmen
1	G_LCCOM		18	0255	* Common center Adjustmen
2	B-LCCOM		0	0-255	* Common center Adjustmen
3	R-ENBX-PW		5	0-15	
4	G-ENBX-PW		5	0-15	
5	B-ENBX-PW		5	0-15	
6	R-DXIN		6	0-127	
7	G-DXIN		6	0-127	
8	B-DXIN		6	0-255	
9	R-ENB11N		16	0-31	
10	G-ENBX11N		16	0-31	
11	B-ENBX11N		16	0-31	
12			0	0-3	
13	R-FPDDR1M		0	0-1	
14			0	0-1	
15			1	0-7	
16	R-PARA1		0	0-1	
17	R-PARA2		505	0-1023	
18	R-PARA3		504	0-1023	
19	R-FPDDR1		718	0-1023	
20	R-FPDDR11		0	0-1023	
21			0	0-3	
22	G-FPDDR1M		0	0-1	
23			0	0-1	
24			1	0-7	
25	G-PARA1		0	0-1	
26	G-PARA2		505	0-1023	
27	G-PARA3		504	0-1023	
28	G-FPDDR1		718	0-1023	
29	G-GPDDR11		0	0-1023	
30			0	0-3	
31	B-FPDDR1M		0	0-1	
32			0	0-1	
33			1	0-7	
34	B-PARA1		0	0-1	
35	B-PARA2		505	0-1023	
36	B-PARA3		504	0-1023	
37	B-FPDDR1		718	0-1023	
38	B-FPDDR11		0	0-1023	
Group 102	Auto Keystone Setup Value				
0	OFFSET		0	-1056 - 1056	
1	OFFSET SWITCH		0	0 - 1	
2	DEBUG MODE		0	0 - 1	
3	SERVICE CALIBRATION		0	0 - 10	* Keystone offset Adjustmen
4	LOCK COUNT		5	1 - 255	
5	DELT VERT RESULT		64	1 - 255	
6	ANGLE 1 COUNT		1	1 - 10	
7	ANGLE 2 COUNT		5	1 - 10	
8	BLIND SECTOR 1		160	0 - 1024	
9	BLIND SECTOR 3		32	0 - 1024	
10	BLIND SECTOR BIAS		61	0 - 1024	
Group 105	Panel Service (8030)				
0	Vsync input		0	0 - 1	0: Enable / 1:Disable
1	Timer for Recovery starting		0	0 - 1	0: Enable / 1:Disable
2	Color correction		0	0 - 1	0: Enable / 1:Disable
3	SPI receiver		0	0 - 1	0: Enable / 1:Disable
4	UART(UPUside)		0	0 - 1	0: Enable / 1:Disable
5	3Wire serial command generator		0	0 - 1	0: Enable / 1:Disable
6	Output of 3 wire serial I/F		0	0 - 1	0: Enable / 1:Disable
7	ColorCorrectionTable_R		1878/1878	0 - 4095	AV / PC
8	ColorCorrectionTable_R		1878/1878	0 - 4095	AV / PC
9	ColorCorrectionTable_R		1878/1878	0 - 4095	AV / PC
10	ColorCorrectionTable_R		1977/1977	0 - 4095	AV / PC
11	ColorCorrectionTable_R		2044/2044	0 - 4095	AV / PC
12	ColorCorrectionTable_R		2048/2048	0 - 4095	AV / PC
13	ColorCorrectionTable_R		2048/2048	0 - 4095	AV / PC

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
14	ColorCorrectionTable_R		2048/2048	0 - 4095	AV / PC
15	ColorCorrectionTable_R		2048/2048	0 - 4095	AV / PC
16	ColorCorrectionTable_R		2048/2048	0 - 4095	AV / PC
17	ColorCorrectionTable_G		1612/1612	0 - 4095	AV / PC
18	ColorCorrectionTable_G		1612/1612	0 - 4095	AV / PC
19	ColorCorrectionTable_G		1612/1612	0 - 4095	AV / PC
20	ColorCorrectionTable_G		1842/1842	0 - 4095	AV / PC
21	ColorCorrectionTable_G		1974/1974	0 - 4095	AV / PC
22	ColorCorrectionTable_G		1966/1966	0 - 4095	AV / PC
23	ColorCorrectionTable_G		2015/2015	0 - 4095	AV / PC
24	ColorCorrectionTable_G		2034/2034	0 - 4095	AV / PC
25	ColorCorrectionTable_G		2048/2048	0 - 4095	AV / PC
26	ColorCorrectionTable_G		2048/2048	0 - 4095	AV / PC
27	ColorCorrectionTable_B		2048/2048	0 - 4095	AV / PC
28	ColorCorrectionTable_B		2048/2048	0 - 4095	AV / PC
29	ColorCorrectionTable_B		2048/2048	0 - 4095	AV / PC
30	ColorCorrectionTable_B		2048/2048	0 - 4095	AV / PC
31	ColorCorrectionTable_B		2048/2048	0 - 4095	AV / PC
32	ColorCorrectionTable_B		2048/2048	0 - 4095	AV / PC
33	ColorCorrectionTable_B		2048/2048	0 - 4095	AV / PC
34	ColorCorrectionTable_B		2048/2048	0 - 4095	AV / PC
35	ColorCorrectionTable_B		2048/2048	0 - 4095	AV / PC
36	ColorCorrectionTable_B		2048/2048	0 - 4095	AV / PC
37	VSYNC pulse width		13	0 - 4095	
38	Vsync generation interval		313	0 - 1023	
39	SCIOUT L-period		7	0 - 255	
40	Interval setting for recovery		8	0 - 1023	

Group 200	Option				
0	Logo Prohibition	Logo Prohibition (0: Menu, 1: Forced)	0	0 - 1	Effective after AC On
1	RS232C Baudrate	Baud Rate	0	0 - 2	0: 19200bps, 1: 9600bps, 2: 115200bps
2	PJLink Enable	PJLink	1	0 - 1	0: Disable 1: Enable
4	CABLE SW	Long Cable	0	0 - 1	0: Disable, 1: Enable
5	PW Debug Command Enable		0	0 - 1	0:Disable (Serial Command Eanble) 1: Enable (PW Debug Mode)
6	Device Refresh Disable		0	0 - 1	0:Enable, 1:Disable No last memory
7	Device Access Disable		0	0 - 1	0:Enable (Normal), 1:Disable No last memory
40	Lamp PWM PresAv 50Hz		80	0-255	
41	Lamp PWM PresAv 60Hz		67	0-255	
42	Lamp PWM PresUnlock		65	0-255	
43	Lamp PWM PresPcA		2	0-255	
44	Lamp PWM PresPcB		3	0-255	
45	Lamp PWM PrefHAv50Hz		5000	0-65535	
46	Lamp PWM PrefHAv60Hz		5000	0-65535	
47	Lamp PWM PrefHUnlock		500	0-65535	
50	Lamp Replacement Display		1	0-1	
51	Filter Warning Display	Filter Warning Display On / Off	1	0-1	1: On, 0: Off
52	Lamp Counter Reset Times	Reset Times of Lamp Counter	0	0-255	Read only
53	Filter Counter Reset Times	Filter Counter Reset Times	0	0-255	
54	Factory Default Execute Times	Reset times of Fanctory Default	0	0 - 255	Read only
56	Menu Position	Move menu (X axis)	0	0 - 1024	
57	Menu Position	Move menu (Y axis)	0	0 - 1024	
59	Source Search Enable	Source Search Enable (0: Disable 1:Enable)	1	0-1	
60	Language Default Setting	Language Default setting (0: English 1:Japanese)	0	0-1	
65	Mute Setting In Freeze status	Mute On/Off in Freeze status	1	0-1	1: On, 0: Off

Group 201	Option (signal)				
0	FrameLock Option		1	0 - 1	0: FrameLockOFF at PC signal 1: FrameLockON at PC signal and 47Hz (Vfreq) ~ Panel frequency of input signal

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
2	Field Sense Invert Enable		0	0 - 1	Reverse Processing of FLDINVSetting Value 0: Disable - Used FLDINV Setting Value 1: Enable - Used Reversed FLDINV Setting Value
4	Sub Image Enable		1	0 - 1	0:Disable (Service Adjustment Dsiable, Used all the Center Values 1:Enable (Service Adjustment Enable)
6	Zoom Accelerator Enable		0	0 - 1	0:Zoom Accelerator OFF, 1:Zoom Accelerator ON No last memory
7	DZoom Reset by Keystone		0	0 - 1	0:Enable (Normal), 1:Disable (Dzoom is not cancelled even if Keystone is cancelled) No last memory
8	Stability Count	Count Value of V-missing	5	0 - 255	
9	Sensivity for Signal Lost (HSYNC)	Only used this value for No Signal Judgement(Hz)	350	0 - 32767	
10	Sensivity for Signal Lost (VSYNC)	Only used this value for No Signal Judgement(Line)	3	0 - 255	
11	Keystone Filter Center Value	Reference Value	16	0 - 30	
Group 205 Spread Spetrum					
0	Enable	0=Enable, 1=Disable	1	0 - 1	
1	Modulation frequency		300	1 - 500	
2	Diffusivity		200	0 - 300	
Group 210 Lamp Control					
0	DIMMER_CTRL_LEVEL_MIN	Luminance Level 1 Data for Dimmer: Dim Level 1 at the less than the Value	13	0-255	
1	DIMMER_CTRL_LEVEL1	Luminance Level 1 Data for Dimmer: Dim Level 2 at the less than the Value	24	0-255	
2	DIMMER_CTRL_LEVEL2	Luminance Level 1 Data for Dimmer: Dim Level 3 at the less than the Value	35	0-255	
3	DIMMER_CTRL_LEVEL3	Luminance Level 1 Data for Dimmer: Dim Level 4 at the less than the Value	46	0-255	
4	DIMMER_CTRL_LEVEL4	Luminance Level 1 Data for Dimmer: Dim Level 5 at the less than the Value	57	0-255	
5	DIMMER_CTRL_LEVEL5	Luminance Level 1 Data for Dimmer: Dim Level 6 at the less than the Value	69	0-255	
6	DIMMER_CTRL_LEVEL6	Luminance Level 1 Data for Dimmer: Dim Level 7 at the less than the Value	100	0-255	
7	DIMMER_CTRL_LEVEL7	Luminance Level 1 Data for Dimmer: Dim Level 8 at the less than the Value	150	0-255	
8	DIMMER_CTRL_LEVEL_MAX	Luminance Level 1 Data for Dimmer: Dim Level 9 at the less than the Value	200	0-255	
11	Cooling Gain	Current cooling gain value	-	0 - 255	* Read only
12	DIMMER_LEVEL_AUTO_Max	Max Dimmer Level for Lamp mode=Auto	128	0 - 128	
13	DIMMER_LEVEL_AUTO_Min	Min Dimmer Level for Lamp mode=Auto	38	0 - 128	
14	Rate of dimmer level's step	Rate of Dimmer Level for Lamp mode=Auto	128	0 - 128	
15	DIMMER_AVERAGE_POINT	Luminance Data Avarage Point for Mimmer	2	1 - 16	
16	DIMMER_AVERAGE_DATA	Luminance Data Avarage Value for Dimmer	-	0 - 255	* Read only
17	DIMMER_LEVEL_AUTO	Current Dimmer Leverl	-	0 - 128	* Read only
18	DIMMER_LEVEL_NORMAL	Normal Dimmer Level	128	0 - 128	
19	DIMMER_LEVEL_ECO	Eco Dimmer Level	89	0 - 128	
20	Lamp check enable		0	0 - 1	0: Lamp Failure Detection OFF (White 50% Back), 1 : ON (Blue 100% Back)
21	VOLTAGE_LEVEL	Lamp Voltage	-		Unit: 8bit(Raw Data) * Read only
22	DIMMER_LEVEL_HIGH	Dimmer level High	71	0 - 128	
Group 230 VBI Slice Level					
0	Generic Initial Slicing Level	PW190 register 0xE344	40	0-255	
1	Generic High Level Threshold	PW190 register 0xE345	-	0-255	* Read only
2	Generic Low Level Threshold	PW190 register 0xE346	-	0-255	* Read only
3	Generic Minimum Low Level	PW190 register 0xE347	40	0-255	
4	Generic Maximum High Level	PW190 register 0xE348	200	0-255	

Electrical Adjustments

Group/Item	Item Name	Function	Initial		Range	Note		
Group 250	FAN Control * Fan voltage adjustment							
	0	FAN1 MIN ADJUST (DAC)		18	0-255			
	1	FAN1 MAX ADJUST (DAC)	DAC Output for Fan	207	0-255			
	2	FAN2 MIN ADJUST (DAC)	Adjust the tolerance of DAC and Fan	45	0-255			
	3	FAN2 MAX ADJUST (DAC)	Volage.	207	0-255			
	4	FAN3 MIN ADJUST (DAC)	* Lamp mode is forced Eco	94	0-255			
	5	FAN3 MAX ADJUST (DAC)		194	0-255			
Group 252	FAN Option							
	0	HI-LAND SWITCH	0: Normal, 1: Hi-Land "On1", 2: Hi-Land "On2"	-	0 - 2	* Read only		
	1	SAFETY SWITCH	For test purpose	0	0,3-6			
	2	FAN MANUAL SWITCH	0: Auto, 1: Manual	0	0 - 3			
	3	FAN1 MANUAL VOLTAGE	Fan Voltage (unit : 0.1V)	100	0-255			
	4	FAN2 MANUAL VOLTAGE	Effective only when Fan Manual	100	0-255			
	5	FAN3 MANUAL VOLTAGE	switch is 1	100	0-255			
Group 253	Fan Tem Error Setting (Memorized)		Normal	Ceiling	HiLand-Normal ON1/ ON2	HiLand-Ceiling ON1/ ON2		
	0	Temp A Warning (High)		9999		-		
	1	Temp B Warning (High)		9999		-		
	2	Temp C Warning (High)		9999		-		
	3	Temp B-A Warning(High)		9999		-		
	4	Temp C-A Warning(High)		9999		-		
	5	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	39	39	36/36	36/36	30-127
	6	Temp B Warning (Normal)	Temp. B to judge the Temp Error at Normal (Panel)	52	52	51/52	51/52	30-127
	7	Temp C Warning (Normal)	Temp. C to judge the Temp Error at Normal (Lamp)	73	73	69/70	69/70	30-127
	8	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100/100	100/100	0-127
	9	Temp C-A Warning(Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100/100	100/100	0-127
	10	Temp A Warning (Eco)	Temp. A to judge the Temp Error at Eco (Room)	39	39	36/36	36/36	30-127
	11	Temp B Warning (Eco)	Temp. B to judge the Temp Error at Eco(Pannel)	52	52	50/52	50/52	30-127
	12	Temp C Warning (Eco)	Temp. C to judge the Temp Error at Eco(Pannel)	70	70	65/68	65/68	30-127
	13	Temp B-A Warning (Eco)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100/100	100/100	0-127
	14	Temp C-A Warning (Eco)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100/100	100/100	0-127
	15	Temp A Warning Offset (Temp)			5		0-127	
	16	Temp B Warning Offset (Temp)	Offset of Temp Error (Temp.)		5		0-127	
	17	Temp C Warning Offset (Temp)	Error Setting Value is increased XC at the below condition * Standby		10		0-127	
	18	Temp B-A Warning Offset (Temp)	* Right to turn on the lamp * Right to change the Lamp mode		0		0-127	
	19	Temp C-A Warning Offset (Temp)			0		0-127	
	20	Temp A Warning Offset (Time)	Offset of Temp Error (Minutes) Error Setting Value is increased X minute at the below condition * Standby * Right to turn on the lamp * Right to change the Lamp mode		3		0-5	
	21	Temp B Warning Offset (Time)			3		0-5	
	22	Temp C Warning Offset (Time)			3		0-5	
	23	Temp B-A Warning Offset (Time)			3		0-5	
24	Temp C-A Warning Offset (Time)			3		0-5		
Group 254	Fan Control Range Setting (Temp./Voltage)		Normal	Ceiling	HiLand-Normal ON1/ ON2	HiLand-Ceiling ON1/ ON2		
	0	High Fan Control Min Temp		9999		-		
	1	High Fan Control Max Temp		9999		-		
	2	High Fan1 Min		9999		-		
	3	High Fan1 Max		9999		-		
	4	High Fan2 Min		9999		-		

Electrical Adjustments

Group/Item	Item Name	Function	Initial				Range	Note
	5 High Fan2 Max		9999				-	
	6 High Fan3 Min		9999				-	
	7 High Fan3 Max		9999				-	
10	Normal Fan Control Min Temp	Temp Sensor Control Start/End Temp at Normal	28	27	27/27	26/27	20-100	
11	Normal Fan Control Max Temp		36	35	32/32	32/32	20-100	
12	Normal Fan1 Min	Fan voltage value at Normal (unit: 0.1V)	65	65	78/90	78/90	0-255	
13	Normal Fan1 Max		130	130	135 /135	135 /135	0-255	
14	Normal Fan2 Min		67	70	85/100	85/100	0-255	
15	Normal Fan2 Max		120	120	130/135	130/135	0-255	
16	Normal Fan3 Min		75	75	95/110	95/110	0-255	
17	Normal Fan3 Max		80	80	100 /117	100 /117	0-255	
20	Eco Fan Control Min Temp	Temp Sensor Control Start/End Temp at Eco	28	28	26/26	26/26	20-100	
21	Eco Fan Control Max Temp		35	35	32/32	32/32	20-100	
22	Eco Fan1 Min	Fan voltage value at Eco (unit: 0.1V)	50	50	67/80	67/80	0-255	
23	Eco Fan1 Max		120	120	125 /130	125 /130	0-255	
24	Eco Fan2 Min		55	57	67/85	67/85	0-255	
25	Eco Fan2 Max		100	100	110 /120	110 /120	0-255	
26	Eco Fan3 Min		38	38	50/58	50/58	0-255	
27	Eco Fan3 Max		40	40	54/62	54/62	0-255	
Group 255	Fan Start/Cooling Setting							
0	Fan1 Initial Volt		60				0-255	
1	Fan2 Initial Volt	Fan Start Voltage(0.1V)	60				0-255	
2	Fan3 Initial Volt		50				0-255	
4	Fan1 Cooling Speed		135				0-255	
5	Fan2 Cooling Speed	Fan Voltage at Power Off (0.1V)	135				0-255	
6	Fan3 Cooling Speed		135				0-255	
8	Cooling Time L1	Cooling Time setting at Fan Mode L1 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	1				1-15	
9	Cooling Time L2	Cooling Time setting at Fan Mode L2 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	3				1-15	
10	Temp Error Cooling Time	Cooling Time setting at Temp Error (x 30 sec)	3				1-15	
11	OnStart Cooling Start Threshold		39				0-100	
12	After shutdown cooling	Cooling after shutdown (0: No, 1: Yes)	1				0-1	
Group 256	Fan/Lamp Voltage Dimmer Setting							
0	Lamp Voltage		-				0-255	* Read only
1	Lamp Vol Threshold		0				30-90	
2	Fan 1 Speed Gain		10				0-255	
3	Fan 2 Speed Gain		10				0-255	
4	Fan 3 Speed Gain		10				0-255	
Group 257	Fan Dimmer Setting							
0	Dimmer Average Chech Period	Dimmer Average measurement Time (0:10sec. 1:30sec. 2:60 sec. 3:90sec...10:300sec.)	1				0-10	
1	Dimmer Average	Dimmer Average Value (Read only)	-					
2	Last Voltage Difference		-					
3	Voltage Difference Goal		-					
Group 259	Fan MIC IC temperature rising resolve							
0	Standby Fan C Voltage	Fan voltage (unit: 0.1V)	52				0-255	
Group 260	Auto Calibration(Common)*Auto Calibration							
0	Execute Calibration		0				0 - 1	Executes Auto-Calibration when changiing the Value (PC White 100%)
1	Loop Count	Maximum Execution Times (OFFSET->GAIN)	10				1 - 30	
2	Auto Status	Result of Auto-Calibration (Last Memory)	0				0 / 1 / 9	0: OK, 1: Adjusting,9: Error * ReadOnly
3	AutoWait	Wait Value for each setting	1				1 - 20	
4	CHECK -Tolenance	Torelance of OFFSET	2				1 - 255	
Group 261	Auto Calibration (RGB)							

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
0	OFFSET AREA H START	Black Level Acquiring Area H-Start Position	975	0 - 1000	
1	OFFSET AREA V START	Black Level Acquiring Area V-Start Position	500	0 - 1000	
2	GAIN AREA H START	White Level Acquiring Area H-Start Position	25	0 - 1000	
3	GAIN AREA V START	White Level Acquiring Area V-Start Position	500	0 - 1000	
4	Image AREA H WIDTH	Black/White Level Acquiring Area	13	0 - 4095	
5	Image AREA V HIGHT	Black/White Level Acquiring Area Height	9	0 - 4095	
6	OFFSET target	Target Value of Black Level Adj.	3	0 - 127	
7	OFFSET torelance	Torelance of Black Level Adj.	1	1 - 127	
8	GAIN target	Target Value of White Level Adj.	238	0 - 255	
9	GAIN torelance	Torelance of White Level Adj.	1	1-255	
Group 262 Auto Calibration (CVBS/SVIDEO)					
0	Y Image Area Start X	Y Acquiring Area H-Start Position	20	0-1000	
1	Y Image Area Start Y	Y Acquiring Area V-Start Position	200	0-1000	
6	Image Area H Width	Image Level Acquiring Area	8	0-4095	
7	Image Area V Hight	Image Level Acquiring Area Height	9	0-4095	
8	Y Target Level	Target Value of Y Level Adj.	217	0-255	
11	Gain Tolerance	Torelance of Level Adj.	1	0-255	
12	Delta Gain	Deviation Width of Gain Value	9	0-255	
Group 264 Auto Calibration (YCbCr)					
0	Y-OFFSET AREA H START	Y - Offset Acquiring Area H-Start Position	925	0 - 1000	
1	Y-OFFSET AREA V START	Y - Offset Acquiring Area V-Start Position	500	0 - 1000	
2	CB - OFFSET AREA H START	CB - Offset Acquiring Area H-Start Position	925	0 - 1000	
3	CB - OFFSET AREA V START	CB - Offset Acquiring Area V-Start Position	500	0 - 1000	
4	CR - OFFSET AREA H START	CR - Offset Acquiring Area H-Start Position	925	0 - 1000	
5	CR - OFFSET AREA V START	CR - Offset Acquiring Area V-Start Position	500	0 - 1000	
6	Y - GAIN AREA H START		50	0 - 1000	
7	Y - GAIN AREA V START		500	0 - 1000	
8	CB - GAIN AREA H START		800	0 - 1000	
9	CB - GAIN AREA V START		500	0 - 1000	
10	CR - GAIN AREA H START		700	0 - 1000	
11	CR - GAIN AREA V START		500	0 - 1000	
12	Image AREA H WIDTH	YCBCR Level Acquiring Area	13	0 - 4095	
13	Image AREA V HIGHT	YCBCR Level Acquiring Area Height	9	0 - 4095	
14	Y - OFFSET TARTGET		4	1 - 255	
15	CB OFFSET TARGET		128	1 - 255	
16	CR OFFSET TARGET		128	1 - 255	
17	Y-GAIN TARGET		217	1 - 255	
18	CB-GAINTARGET		237	1 - 255	
19	CR-GAINTARGET		237	1 - 255	
20	OFFSET torelance	Torelance of OFFSET Adj.	1	1 - 255	
21	GAIN torelance	Torelance of GAIN Adj.	1	1 - 255	
Group 270 CUSTOM(Aspect)					
0	Scaler Horizontal	Horizontal Scaler Edit	100	68-132	
1	Scalser Vertical	Vertical Scaler Edit	100	68-132	
2	Connect	Seperate/Connect Edit	0	0-1	0:Seperate, 1: Connect
3	Position Horizontal	Horizontal Postion Correction	100	85-115	
4	Position Vertical	Vertical Position Correct	100	85-115	
5	Aspect Enable		0	0 - 1	0: False, 1: True
Group 280 AutoPC Adjust					
0	AutoPCAdjustEnable	Auto-PC Adj Operation Enable if Un-supported Signal Input	0	0-1	0:Enabel, 1:Disable
1	Frequency Step	Frequency Steps of Total Dot	1	0-3	
2	Frequency Threshold	Total Dot Frequency Threshold	5	0-10	0[]<-- - --> 10[Not matched]
3	Fine Phase	Do Phase Adj after Total Dot Adj.	1	0-1	0;Excutes Fine Phase; 1:Not Excute
4	BLKDET	Black Level Detection Area	1	0 - 7	
5	PHASEMSK	Phase Detection Filter	0	0 - 3	0: Effective All Bit, 1: Disable Lower 1 bit 2: Disable Lower 2 bit, 3: Disable Lower 3 bit

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
Group 290	PanelType * Not used for this model				
0	GammaL/R-View	Current Setting Check	0	0-20	0: Gamma for L-Turn 20: Gamma for R-Turn * Read only
1	GammaL/R-Change	Setting of Gamma	10	0-20	Sets L-Turn Gamma if the Value is set to 0. Sets R-Turn Gamma if the Value is set to 20.
Group 430	Model No.Setting [No NAME]				
0	Model No. Confirm	0 : No Name 1 : PT-VX400 2 : PT-VX400U 3 : PT-VX400E 4 : PT-VX400EJ 5 : PT-VX400EA 6 : PT-VX400EAJ 7 : PT-BX40	0	-	
1	Model No. Setting	Model No. is set when the value is set to 10.	0	0-10	
Group 431	Model No.Setting [PT-VX400]				
0	Model No. Confirm	*Refer to G430-0	0	-	
1	Model No. Setting	Model No. is set when the value is set to 10.	0	0-10	
Group 432	Model No.Setting [PT-VX400U]				
0	Model No. Confirm	*Refer to G430-0	0	-	
1	Model No. Setting	Model No. is set when the value is set to 10.	0	0-10	
Group 433	Model No.Setting [PT-VX400E]				
0	Model No. Confirm	*Refer to G430-0	0	-	
1	Model No. Setting	Model No. is set when the value is set to 10.	0	0-10	
Group 434	Model No.Setting [PT-VX400EJ]				
0	Model No. Confirm	*Refer to G430-0	0	-	
1	Model No. Setting	Model No. is set when the value is set to 10.	0	0-10	
Group 435	Model No.Setting [PT-VX400EA]				
0	Model No. Confirm	*Refer to G430-0	0	-	
1	Model No. Setting	Model No. is set when the value is set to 10.	0	0-10	
Group 436	Model No.Setting [PT-VX400EAJ]				
0	Model No. Confirm	*Refer to G430-0	0	-	
1	Model No. Setting	Model No. is set when the value is set to 10.	0	0-10	
Group 437	Model No.Setting [PT-BX40]				
0	Model No. Confirm	*Refer to G430-0	0	-	
1	Model No. Setting	Model No. is set when the value is set to 10.	0	0-10	
Group 500	Composite (NTSC) Composite / S-Video				
1	Disp Dots		668	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		18	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 501	Composite (PAL) Composite / S-Video				
1	Disp Dots		658	0 ~ 4095	
2	H Back Porch		34	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 502	Composite (SECAM) Composite / S-Video				
1	Disp Dots		652	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 510	SCART(480i)				
1	Disp Dots		674	0 ~ 4095	
2	H Back Porch		132	0 ~ 4095	
3	V Back Porch		43	0 ~ 4095	
4	Disp Line		452	0 ~ 4095	
Group 511	SCART (575i)				
1	Disp Dots		650	0 ~ 4095	
2	H Back Porch		152	0 ~ 4095	
3	V Back Porch		68	0 ~ 4095	
4	Disp Line		514	0 ~ 4095	
Group 520	YCbCr (480i)				
0	Total Dots		858	0 ~ 4095	
1	Disp Dots		670	0 ~ 4095	
2	H Back Porch		146	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 521	YCbCr (575i)				
0	Total Dots		864	0~4095	
1	Disp Dots		656	0~4095	
2	H Back Porch		162	0~4095	
3	V Back Porch		64	0~4095	
4	Disp Line		534	0~4095	
Group 522	YCbCr (480P)				
0	Total Dots		858	0 ~ 4095	* Read only
1	Disp Dots		684	0 ~ 4095	
2	H Back Porch		136	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
Group 523	YCbCr (575P)				
0	Total Dots		864	0 ~ 4095	* Read only
1	Disp Dots		690	0 ~ 4095	
2	H Back Porch		142	0 ~ 4095	
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		550	0 ~ 4095	
Group 524	YCbCr (720P - 60)				
0	Total Dots		1650	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		313	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 525	YCbCr (720P - 50)				
0	Total Dots		1980	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		338	0 ~ 4095	
3	V Back Porch		36	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 526	YCbCr (1080i - 60)				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		256	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 527	YCbCr (1080i - 50)				

Electrical Adjustments

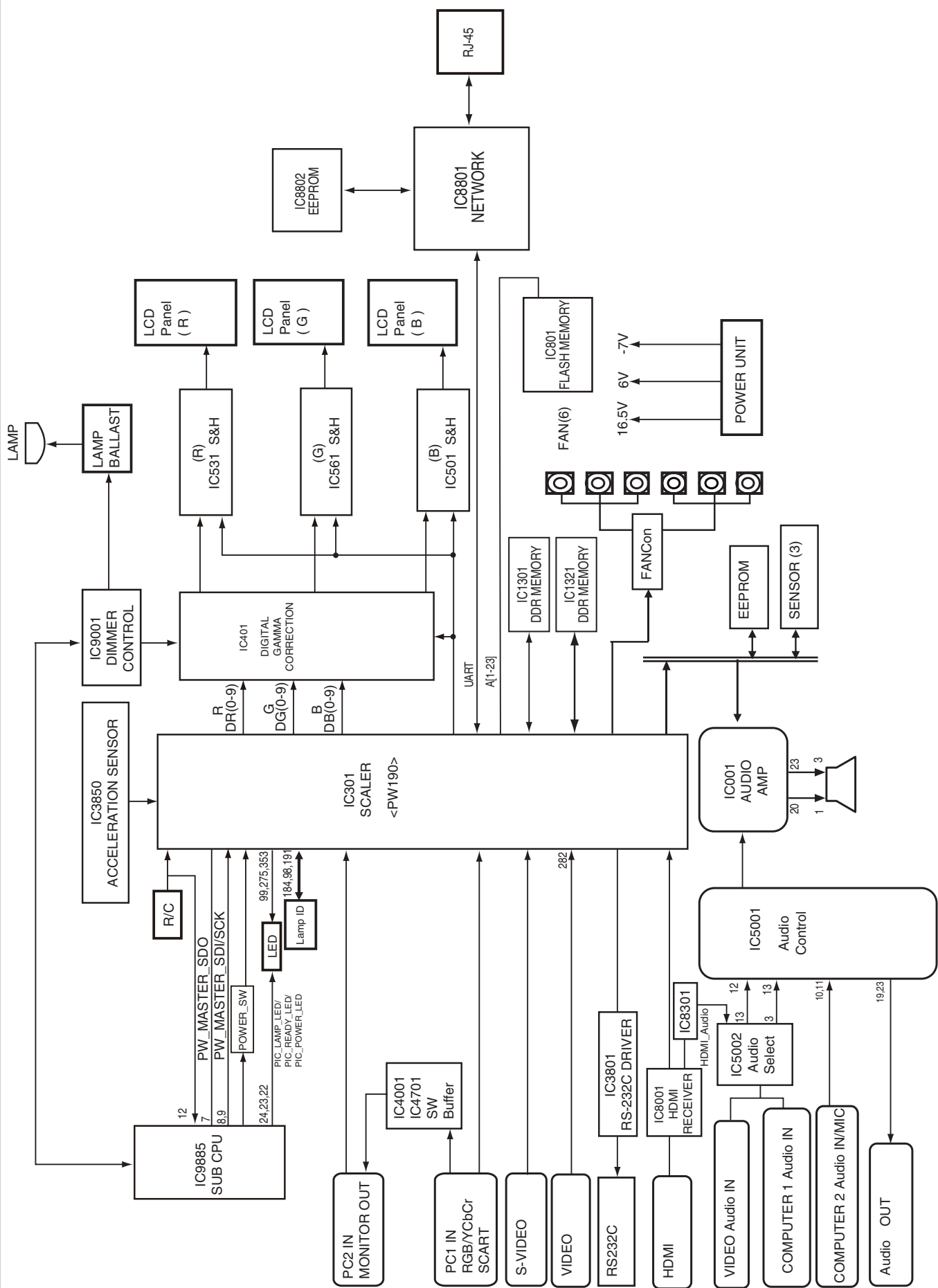
Group/Item	Item Name	Function	Initial	Range	Note
0	Total Dots		2640	0 ~ 4095	* Read only
1	Disp Dots		1870	0 ~ 4095	
2	H Back Porch		257	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 528	YCbCr (1035i)				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		256	0 ~ 4095	
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 540	RGB Video (480i)				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		752	0 ~ 4095	
2	H Back Porch		166	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
Group 541	RGB Video (575i)				
0	Total Dots		966	0 ~ 4095	
1	Disp Dots		736	0 ~ 4095	
2	H Back Porch		182	0 ~ 4095	
3	V Back Porch		66	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 542	RGB Video (480P)				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		766	0 ~ 4095	
2	H Back Porch		156	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
Group 543	RGB Video (575P)				
0	Total Dots		986	0 ~ 4095	
1	Disp Dots		774	0 ~ 4095	
2	H Back Porch		174	0 ~ 4095	
3	V Back Porch		62	0 ~ 4095	
4	Disp Line		540	0 ~ 4095	
Group 544	RGB Video (720P - 60)				
0	Total Dots		1650	0 ~ 4095	
1	Disp Dots		1246	0 ~ 4095	
2	H Back Porch		318	0 ~ 4095	
3	V Back Porch		36	0 ~ 4095	
4	Disp Line		698	0 ~ 4095	
Group 545	RGB Video (720P - 50)				
0	Total Dots		1980	0 ~ 4095	
1	Disp Dots		1246	0 ~ 4095	
2	H Back Porch		310	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
Group 546	RGB Video (1080i - 60)				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		260	0 ~ 4095	
3	V Back Porch		58	0 ~ 4095	
4	Disp Line		1046	0 ~ 4095	
Group 547	RGB Video (1080i - 50)				
0	Total Dots		2640	0 ~ 4095	
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		260	0 ~ 4095	

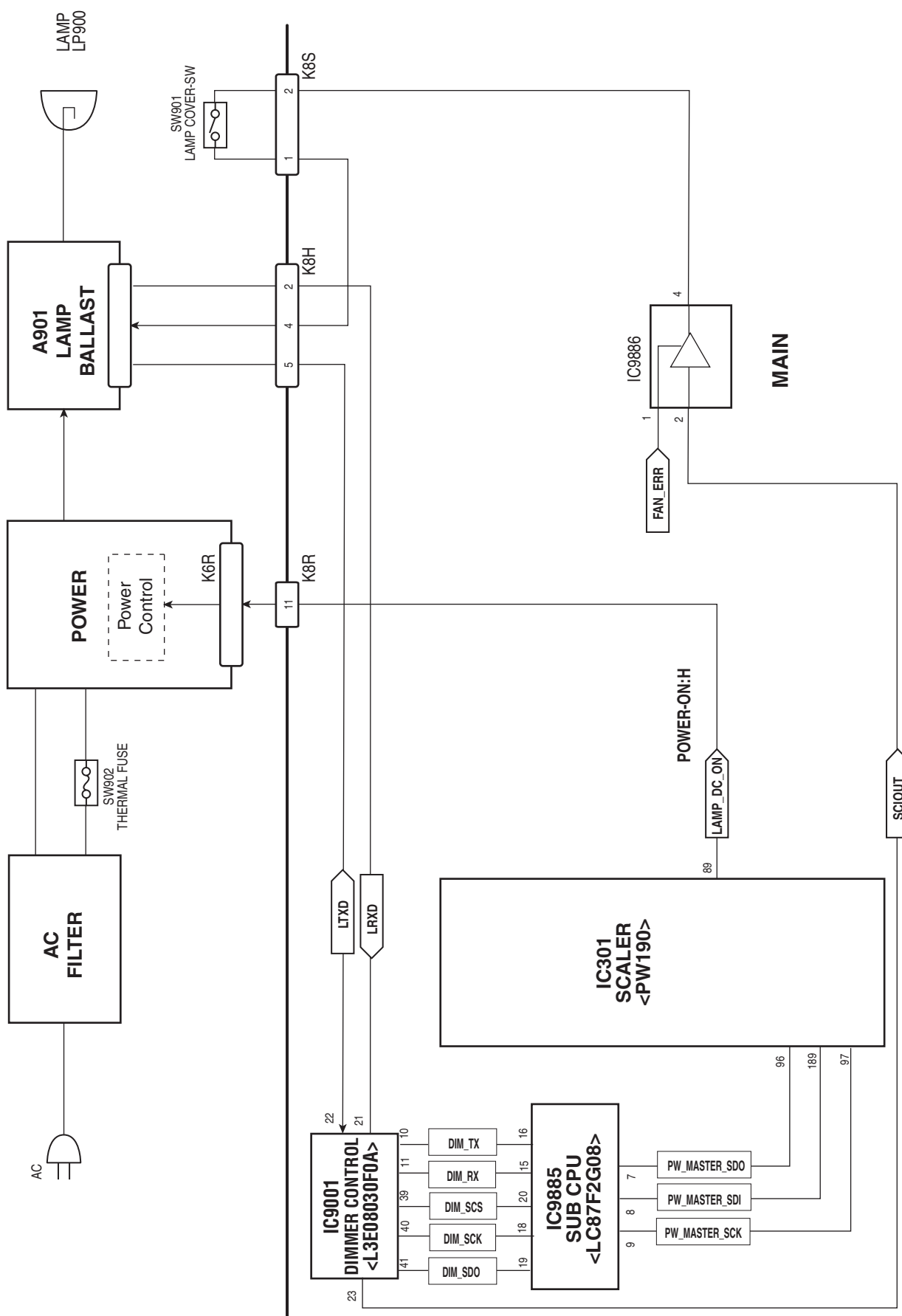
Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		1050	0 ~ 4095	
Group 548	RGB Video (1035i)				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		260	0 ~ 4095	
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1008	0 ~ 4095	
Group 981	Color Shading Adj Offset				
0	R-Max		128	0 - 255	
1	R-Mid1		128	0 - 255	
2	R-Mid2		128	0 - 255	
3	R-Min		128	0 - 255	
4	G-Max		128	0 - 255	
5	G-Mid1		128	0 - 255	
6	G-Mid2		128	0 - 255	
7	G-Min		128	0 - 255	
8	B-Max		128	0 - 255	
9	B-Mid1		128	0 - 255	
10	B-Mid2		128	0 - 255	
11	B-Min		128	0 - 255	

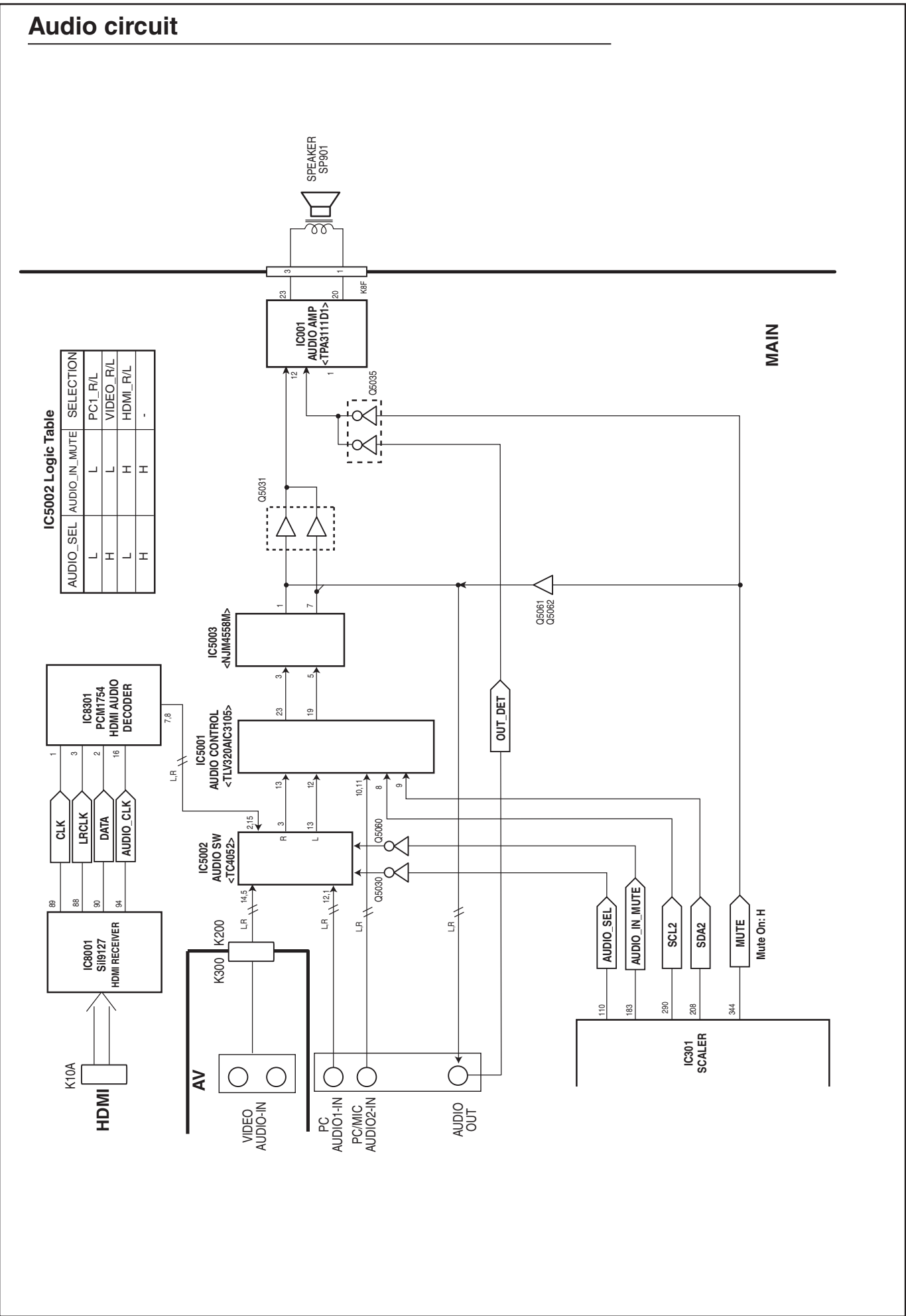
Chassis Block Diagrams

Chassis over view

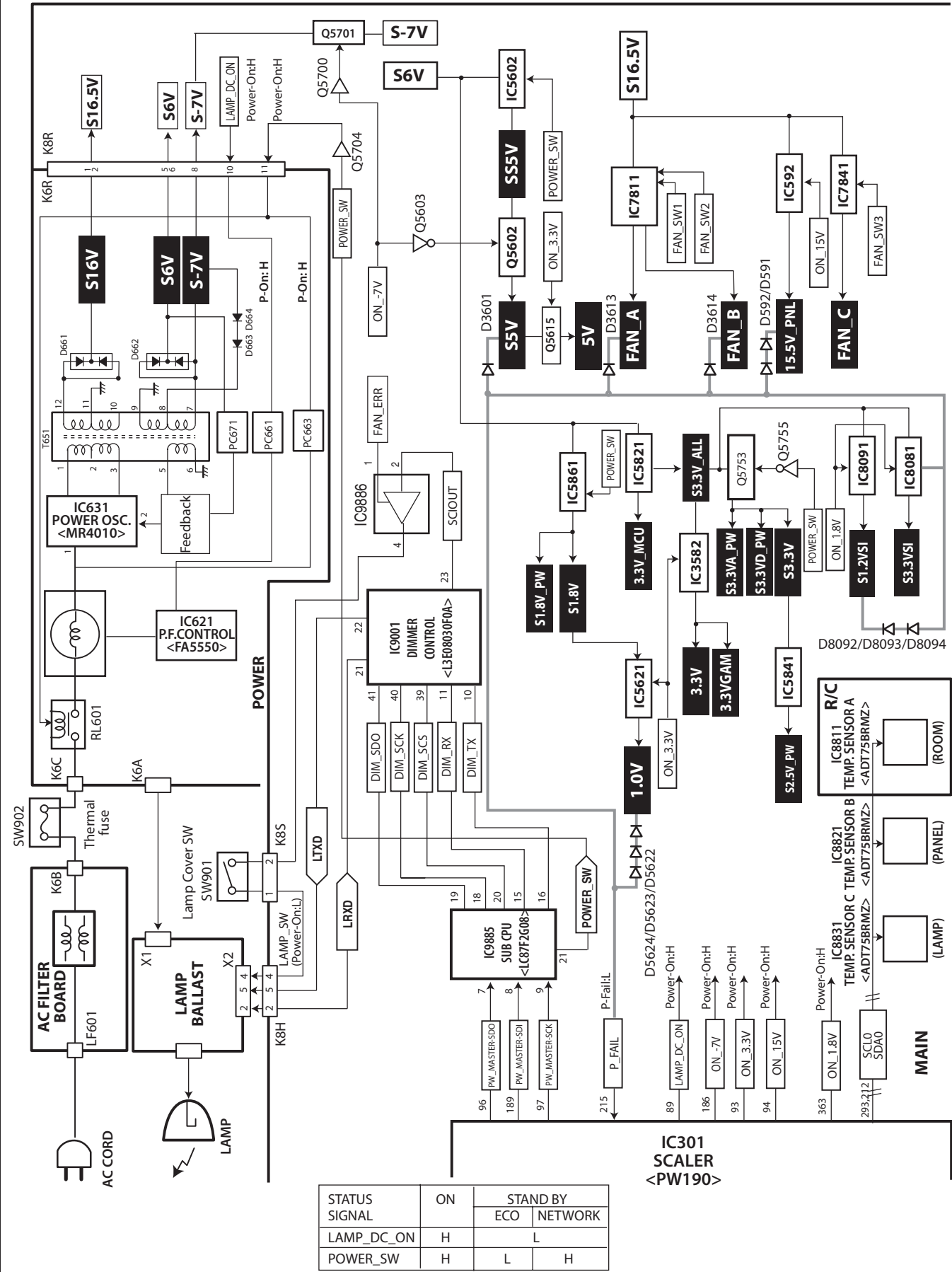




Audio circuit



Power supply & protection circuit





Troubleshooting

Indicators and projector condition

Each indicator on the projector indicates the operating status of the projector. If you find the un-expected operation during usage, check the projector's operation with the tables below. The indicators also let you know the maintenance sign. To use the projector in the best performance for a long period of time, take an adequate maintenance according to the indicator status.

POWER indicator

Indicator status		Status
No illumination or flashing		The power cord is unplugged.
RED	Lit	Press the ON/STAND-BY button to start the projection.
	Flashing	The temperature inside the projector is abnormally high. The projector cannot be turned on until cooling is completing and the POWER indicator stops blinking.
GREEN	Lit	Projecting.
	Flashing	The projector is in the Power management mode.

LAMP REPLACE indicator

Indicator	Lighting in yellow
Status	The projection lamp reaches its end of life.
Check	Is there a Lamp replacement icon appears on the screen?
Remedy	Replace the lamp unit.

WARNING indicator

Indicator	Lights in red.	Blinks in red.
Status	The projector detects an abnormal condition and cannot be turned on.	The temperature inside the projector is abnormally high. The projector cannot be turned on. And the POWER indicator also blinks in red.
Check	Unplug the AC power cord and plug it again to turn on the projector.	<ul style="list-style-type: none">- Did you provide appropriate space for the projector to be ventilated? Check the installing condition to see if the air vents of the projector are not blocked.- Has the projector been installed near an Air-Conditioning/ Heating Duct or Vent?- Are the filters clean?
Remedy	If the projector is turned off again, the projector may have the internal error. It needs to check up or servicing.	<ul style="list-style-type: none">- Provide good installing condition to your projector.- Move the installation of the projector away from the duct or vent.- Replace filters.

Note:

- If <WARNING indicator> persists to light or blink after taking these measurements, the projector may have the internal error. Do not leave the projector on. It may cause an electric shock or a fire hazard.
- The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, the projector may be defective. Do not leave the projector on. It may cause an electric shock or a fire hazard.

No power

This projector provides a function which can be specified a defective area simply by indicating the LEDs. Connect the AC cord and press the ON/STAND-BY button once and then check the LED indication.

- **When all of LED indicators are not lighting**, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;

AC cord, F601 (Fuse), Power board, SW902 (Thermal fuse)

SW902 opens when the surrounding temperature of the switch exceeds 113°C.

- **When the WARNING (red) and POWER (red) indicators are flashing**, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops flashing, and then try to turn on the projector.

The internal temperature is monitored by sensor ICs, IC8831, IC8821 on the Main board and IC8811 on the R/C board.

- **When the WARNING indicator lights red**, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.

The P_FAIL signal (Error: L), FAN_ERR_B signal (Error: L), FAN_ERR_C (Error: H) are sent to pins, 215, 267, and 29 of IC301 <SYSTEM CONTROL> respectively when the abnormality occurred inside the projector, and then the IC301 sends the shutdown signal, LAMP_DC_ON, to the power supply circuit to stop its operation, and signal SCIOUT to the lamp ballast board via IC9886 and SW901<lamp cover switch> to stop operation of the lamp circuit.

An abnormality occurs on the secondary power supply;

Check power supplies S16.5V, S6V, S-7V. P_FAIL signal becomes Low when the abnormality occurs on any of the power supply lines.

An abnormality occurs on the fan control circuit;

If fans FN901, FN902 or FN903 has an error, the FAN_ERR and P_FAIL signals become "L". If fans FN904 or FN905 has an error, the FAN_ERR, P_FAIL and FAN_ERR_B signals become "L". If fan FN906 has an error, the FAN_ERR_C signal becomes "H".

The FAN_ERR signal cuts off the SCIOUT signal which is supplied to the lamp ballast board if the FAN_ERR signal is "L".

An abnormality occurs on the drive signals;

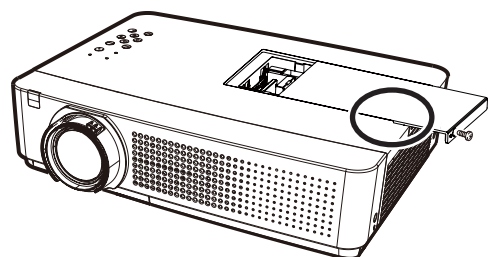
ON_15V signal (Power-on: H) is output from pin 94 of IC301 and switches IC592, 15.5V supply circuit, ON_3.3V signal (Power-on: H) is output from pin 93 of IC301 and switches IC5621 - 1.0V, IC3852 - 3.3V supply circuits.

LAMP_DC_ON signal (Power-on: H) is output from pin 89 of IC301 and supplied to the PFC Control IC, IC621, via PC661 on the power supply board. POWER_ON signal (Power-on: H) is output from pin 21 of IC9885<SUB CPU> and supplied to the oscillator IC, IC631, via PC663 on the power board.

SCIOUT signal (Power-on: H) is output from pin 23 of IC9001 and applied to pin 2 of IC9886 and output pin 4 and then supplied to the lamp ballast board through SW901<Lamp Cover SW>.

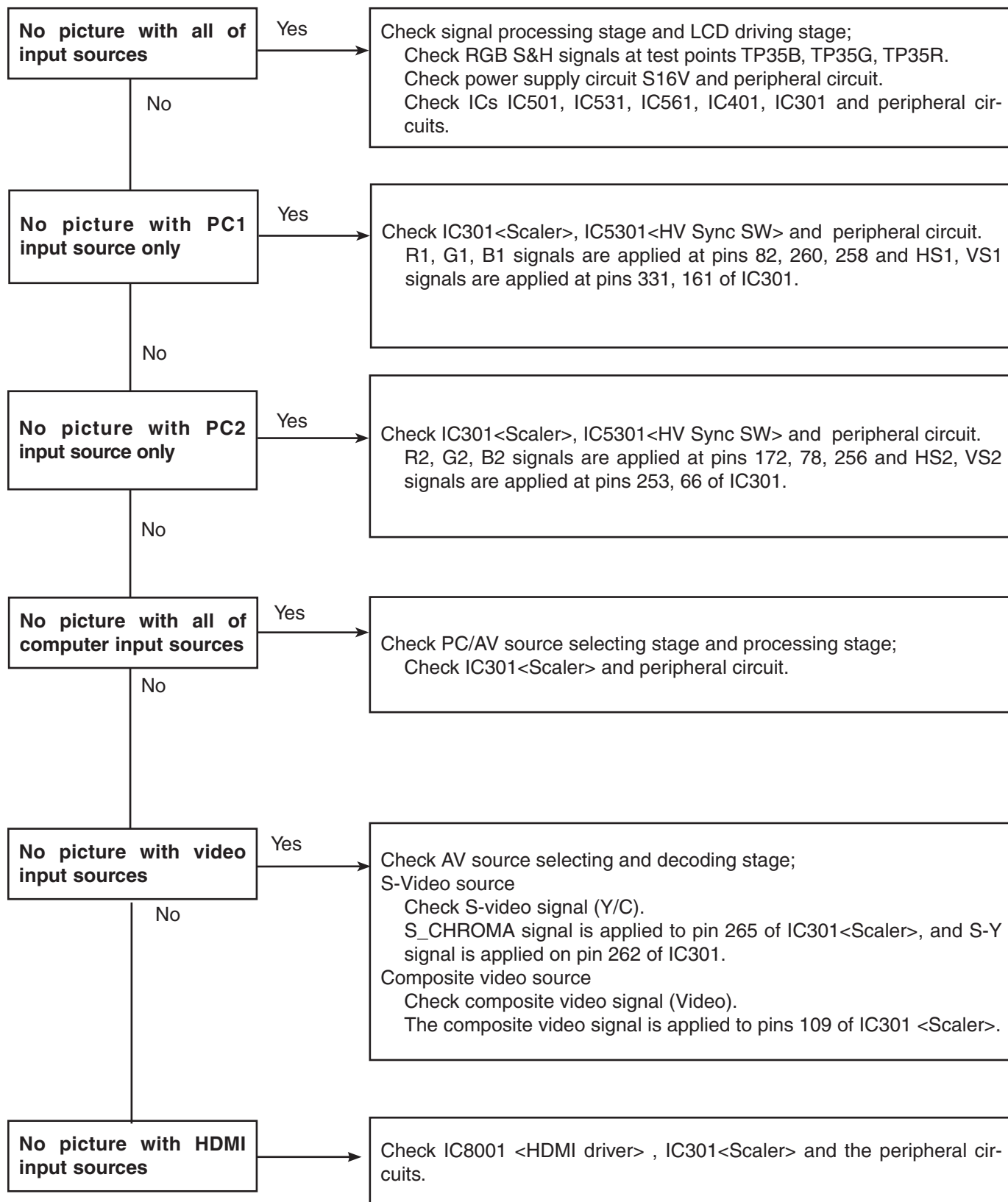
Lamp Cover switch

Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW901).



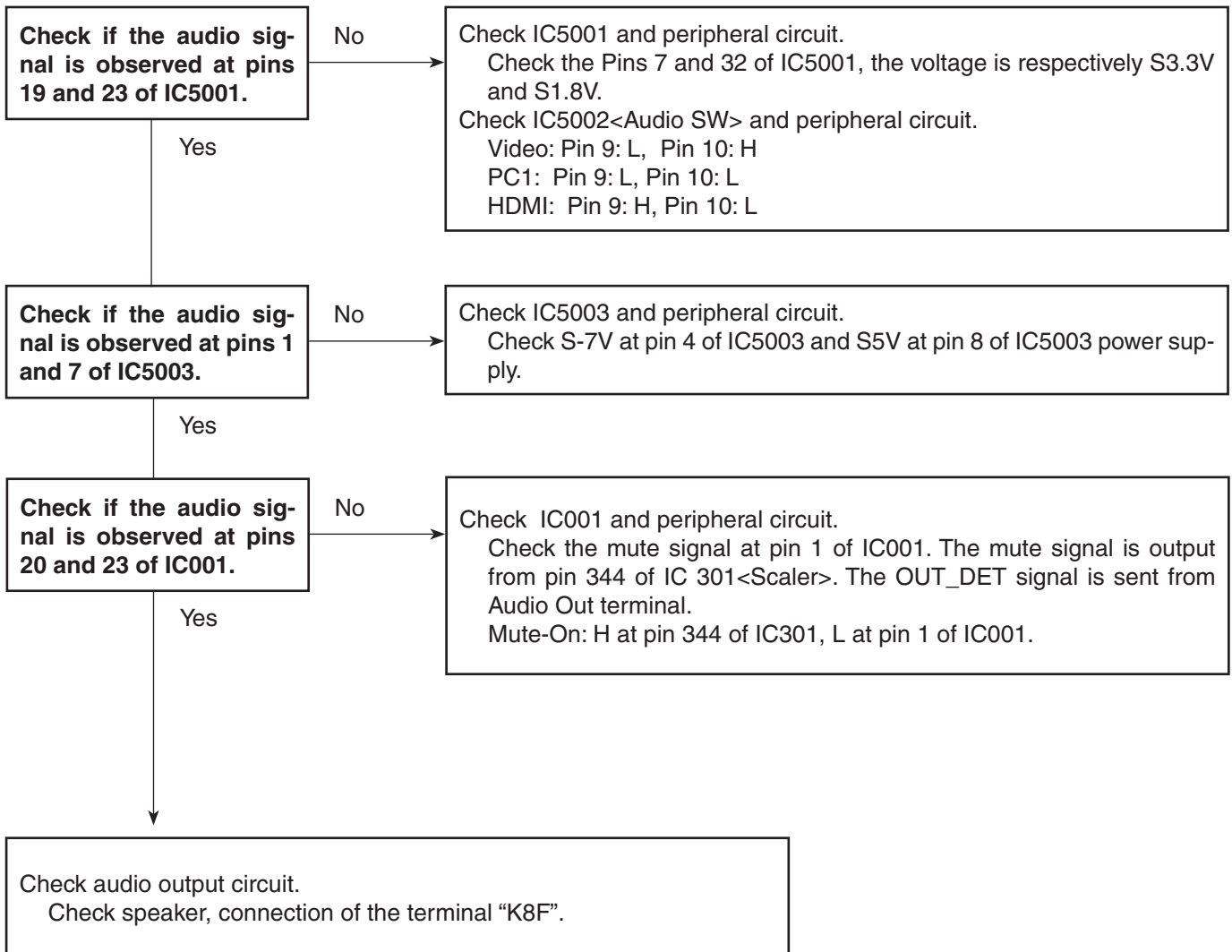
No picture

Check following steps.



No sound

Check following steps.



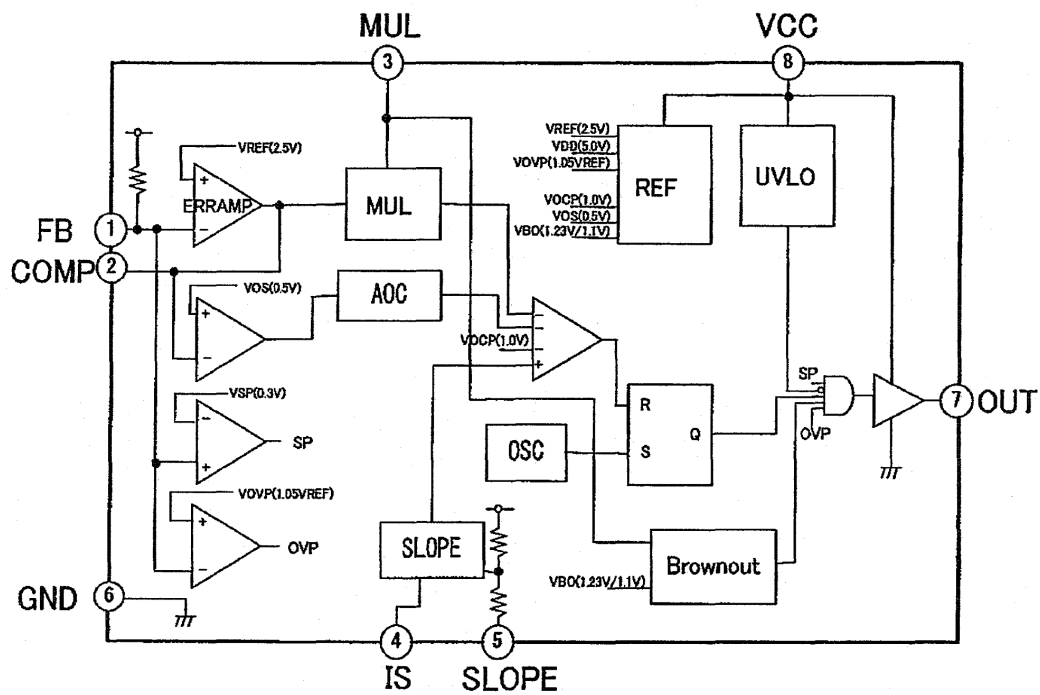
Control Port Functions

Scaler I/O port functions (PW190)

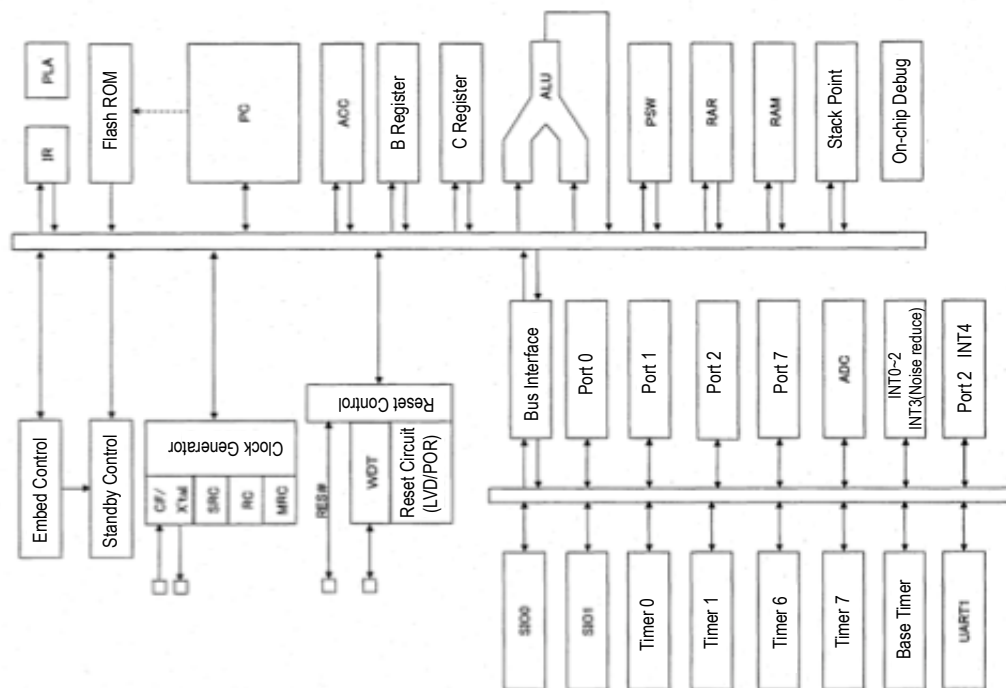
PIN NO.	PORT NO.	SIGNAL NAME	DESCRIPTION	I/O
93	J1	ON_3.3V	3.3V Power Drive, Power On: H	O
187	H2	RESET_MIC		O
111	B12	PW_SCS		O
124	B25	TXD_PW	Serial Control TXD	O
94	H1	ON_15V	15V Power Driver, Pow on: H	O
201	C11	MIC_OFF	MIC Control, MIC On: H	O
202	C12	SDATA_PW	3-Wired Serial Control Data	O
205	C15	PW_NMCLR	LAN control	I
208	C18	SDA2	IIC Bus Switch IC DAC, SoundIC[5V_SW]	O
211	C21	SCL1		O
212	C22	SDA0	IIC Bus Temp Sensor [S3.3V]	O
28	C26	KEY1	Input/Select/Keystone	I
278	D5	ID_PWR_SW	lamp ID power 5V ON/OFF	I
285	D12	LAMP_DET	Lamp Error Det	I
290	D17	SCL2	IIC Bus Control Clock	O
293	D20	SCL0	IIC Bus Control Clock	O
294	D21	SDA1	IIC Bus Control Data	O
296	D23	PW_UPDATE	LAN control	O
215	D24	P-FAIL		I
126	D25	KEY2	Key Control Input	I
29	D26	FAN_ERR_C	FAN C error alarm	I
190	E2	FAN_SW1	FAN A Control, FAN A ON: H	O
362	E14	IRM_RST	L3E07111 reset	O
368	E20	RXD_PW	Serial Control RXD	I
370	E22	P_FAIL_FAN		I
30	E26	FAN_CON_A	FAN CON_A	O
420	F5	FAN_SW2	FAN B Control. FAN B ON: H	O
128	F25	FAN_CON_B	FAN CON_B	O
349	H4	FAN_SW3	FAN C Control, FAN C ON: H	O
373	H22	FAN_CON_C	FAN_CON_C	O
271	J3	RST_DB	DB IC9001 RESET	O
182	N2	AMP_STBY		O
92	K1	DG[1]		I
185	K2	DB[1]		I
347	K4	PC1_L_OFF	PC1_L Control	O
91	L1	DR[1]		I
184	L2	PW_LAMP_ID_A	lamp ID	O
346	L4	DR[0]		I
183	M2	AUDIO_IN_MUTE		O
268	M3	DB[0]		I
345	M4	DG[0]		I
89	N1	LAMP_DC_ON	Power Control, Power On: H	O
267	N3	FAN_ERR_B	FAN B error alarm	I
344	N4	MUTE	Mute_ON : H	O
413	N5	MONIT_OUT	Low=in, High=Monit OUT	O
329	AC9	A[22]		O
160	AE12	A[20]		O
65	AF12	A[21]		O
186	J2	ON_-7V	-7V Power Driver, Power On: H	O
110	B11	AUDIO SEL		O
96	F1	PW_MASTER_SDO	SUB CPU COMMUNICATION	O
189	F2	PW_MASTER_SDI	SUB CPU COMMUNICATION	O
97	E1	PW_MASTER_SCK	SUB CPU COMMUNICATION	O

IC Block Diagrams

● FA5550NG <P.F. control, IC621>

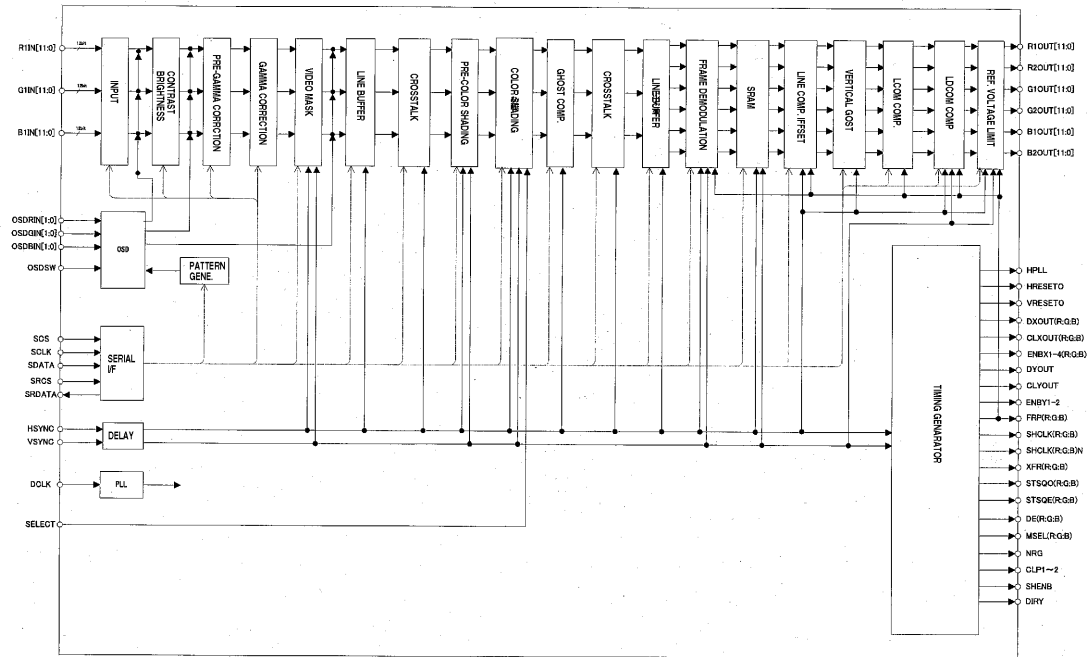


● LC87F2G08AUSSOP <Sub CPU, IC9885>

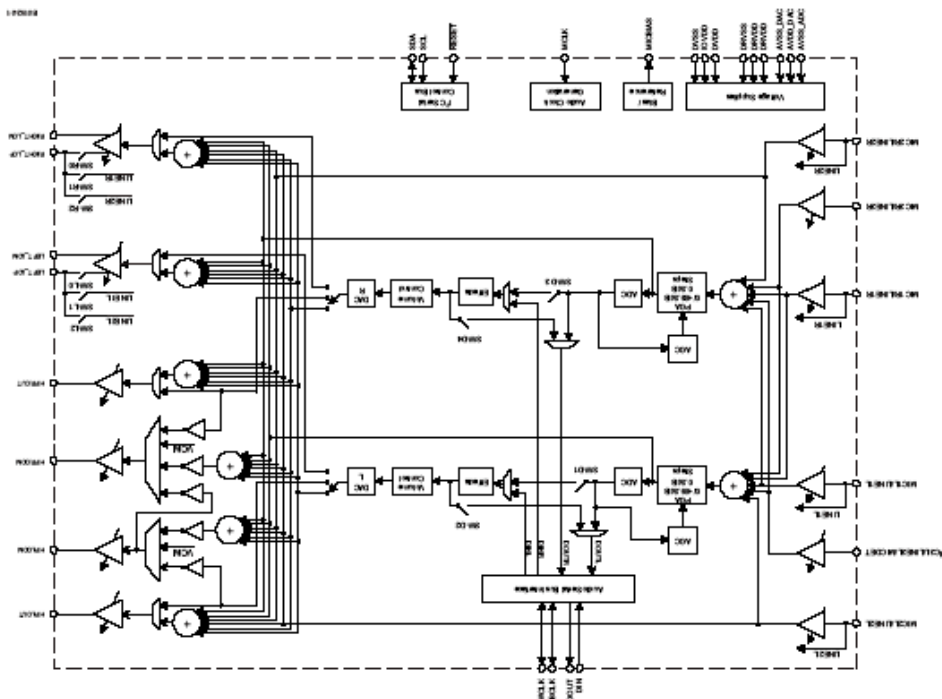




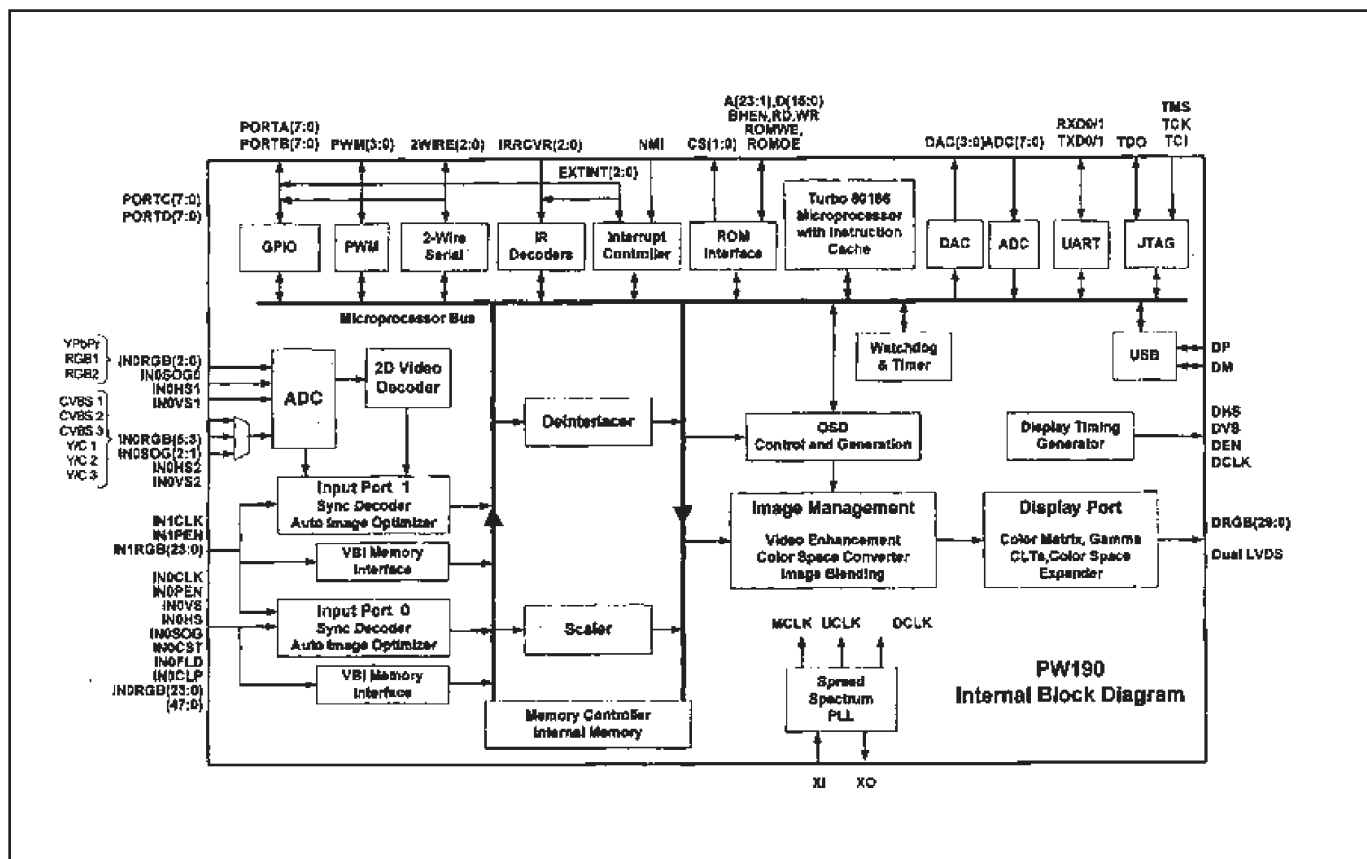
● L3E07111 <Digital gamma correction, IC401>



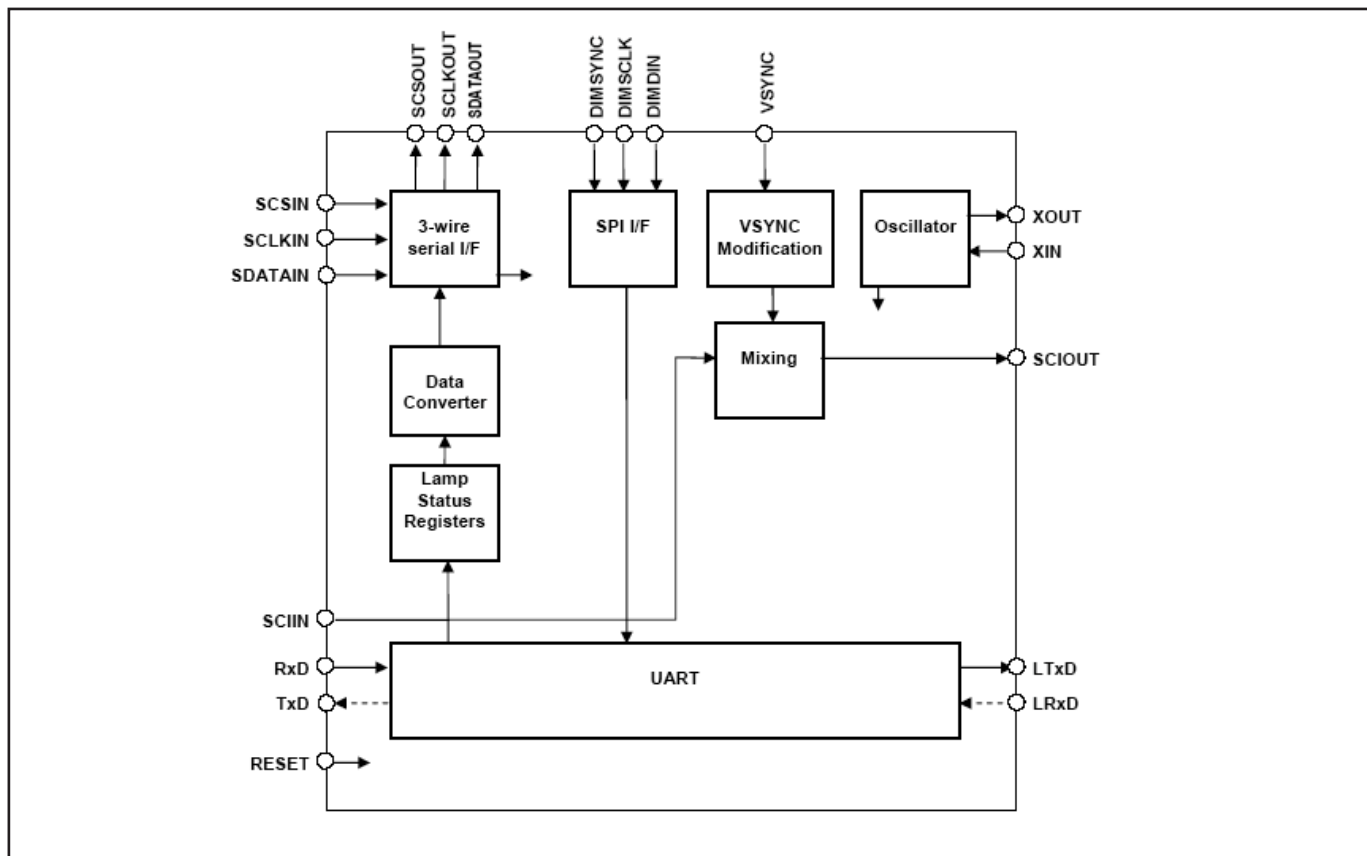
● TLV320AIC3105 <Audio control, IC5001>



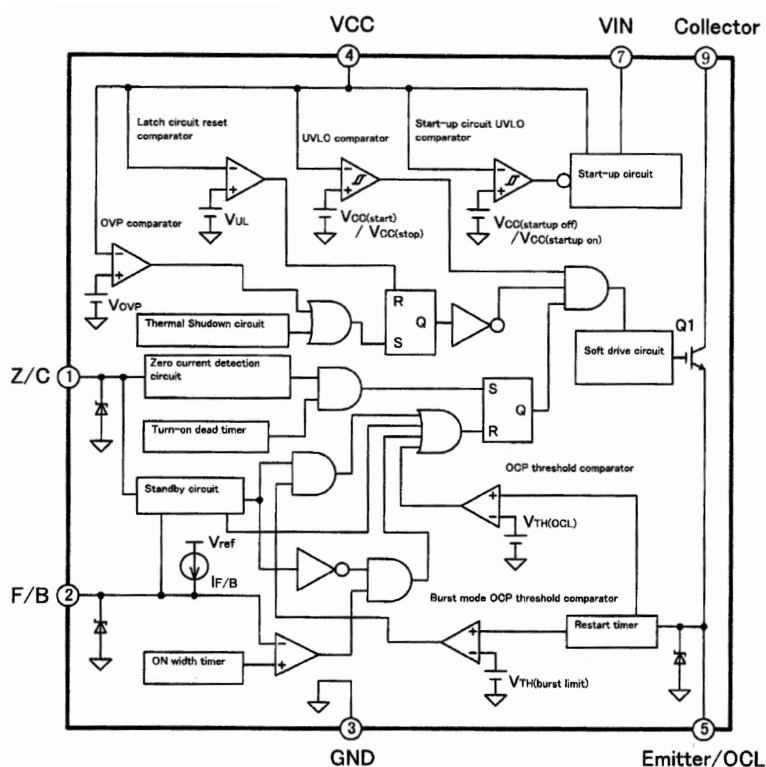
● PW190 <Scaler, IC301>



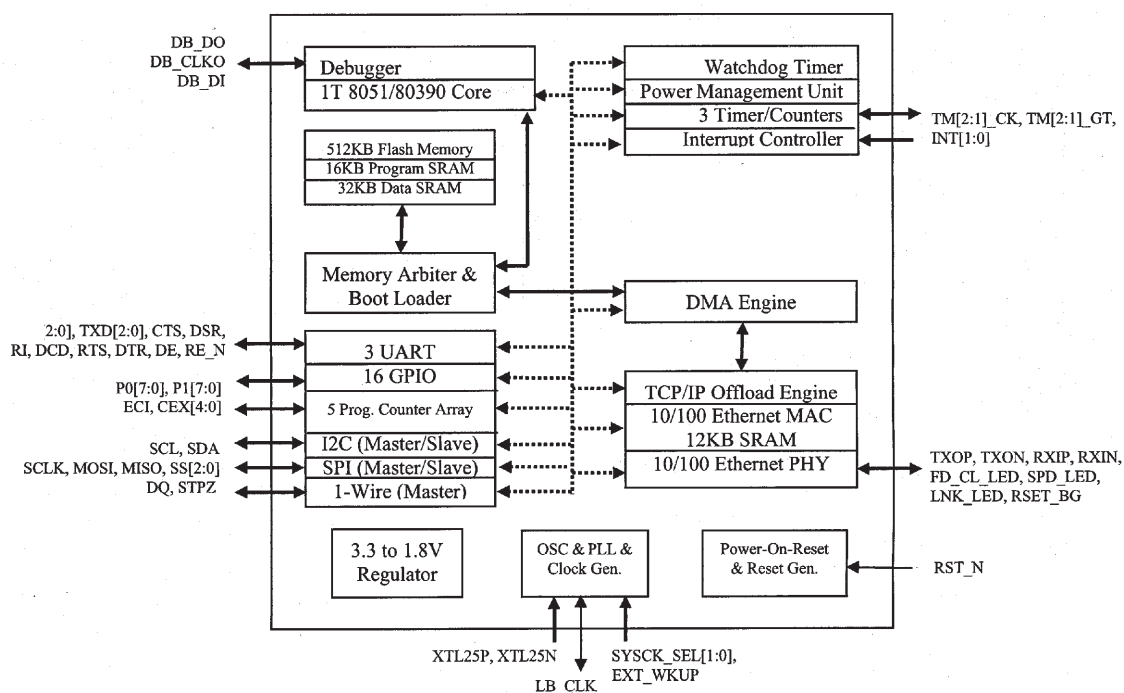
● L3E08030F0A <Dimmer control, IC9001>



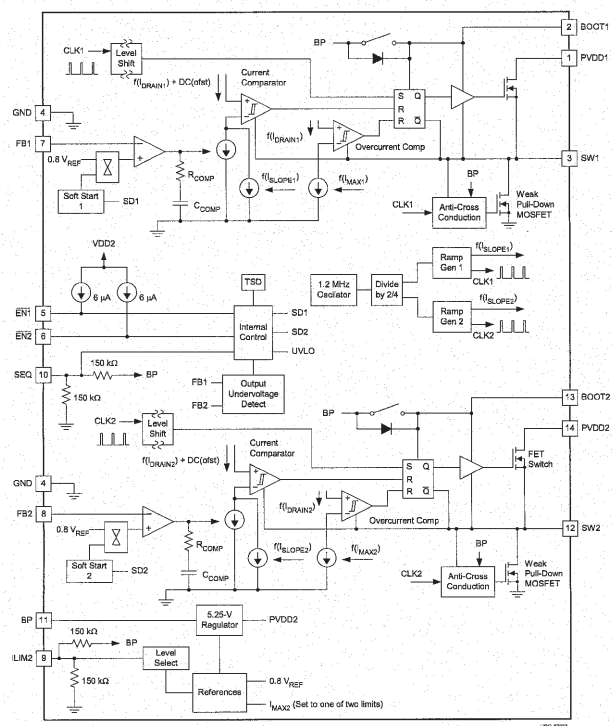
● MR4010 <Power OSC, IC631>



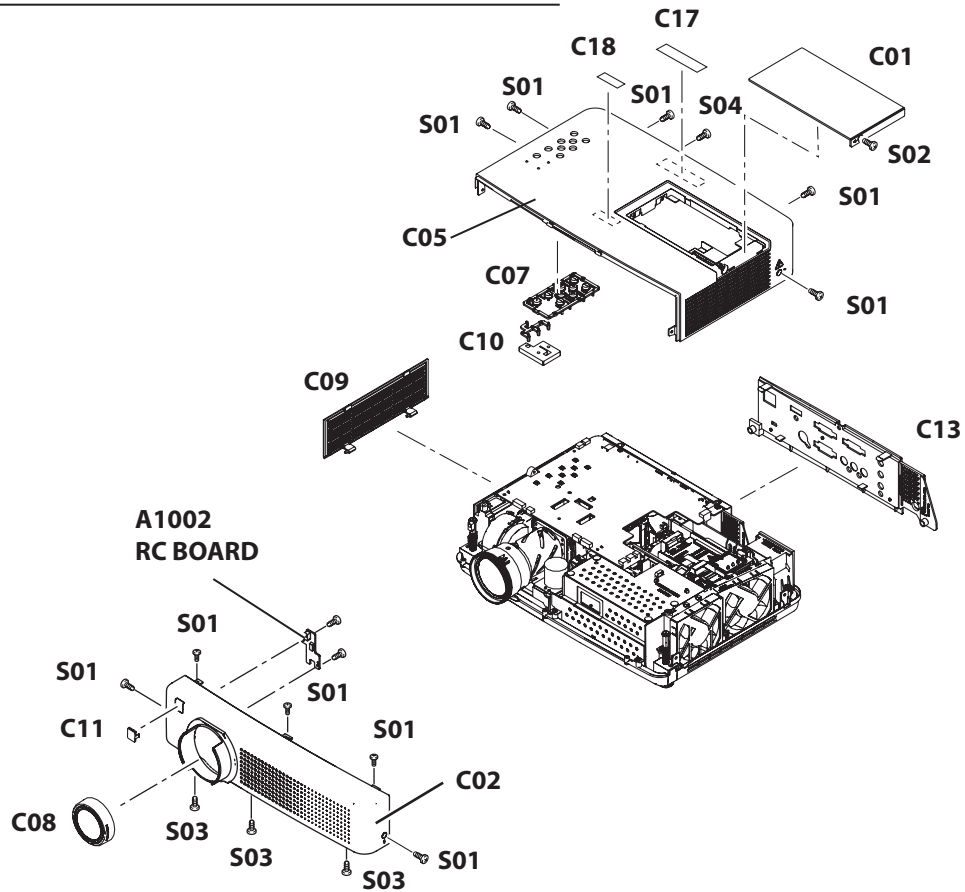
● AX11005 <Netwrok, IC8801>



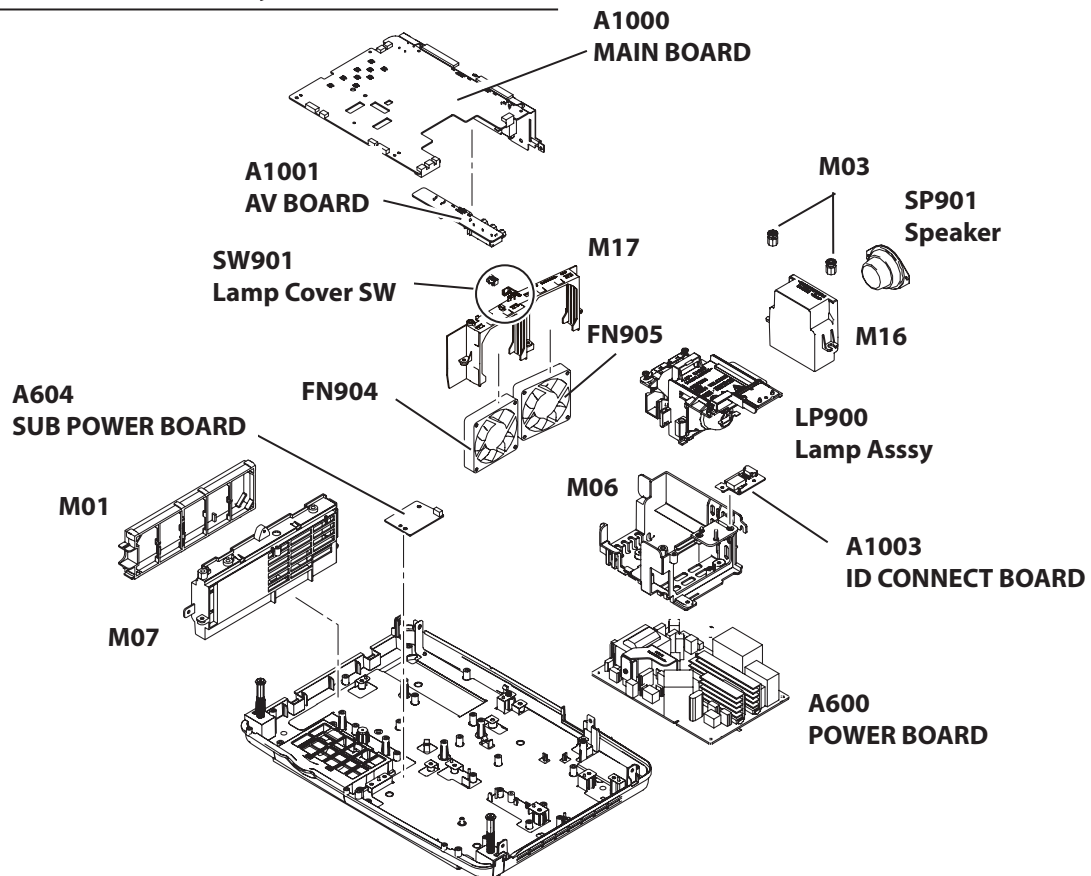
● TPS54286 <DC-DC converter, IC7811>



Cabinet top assembly

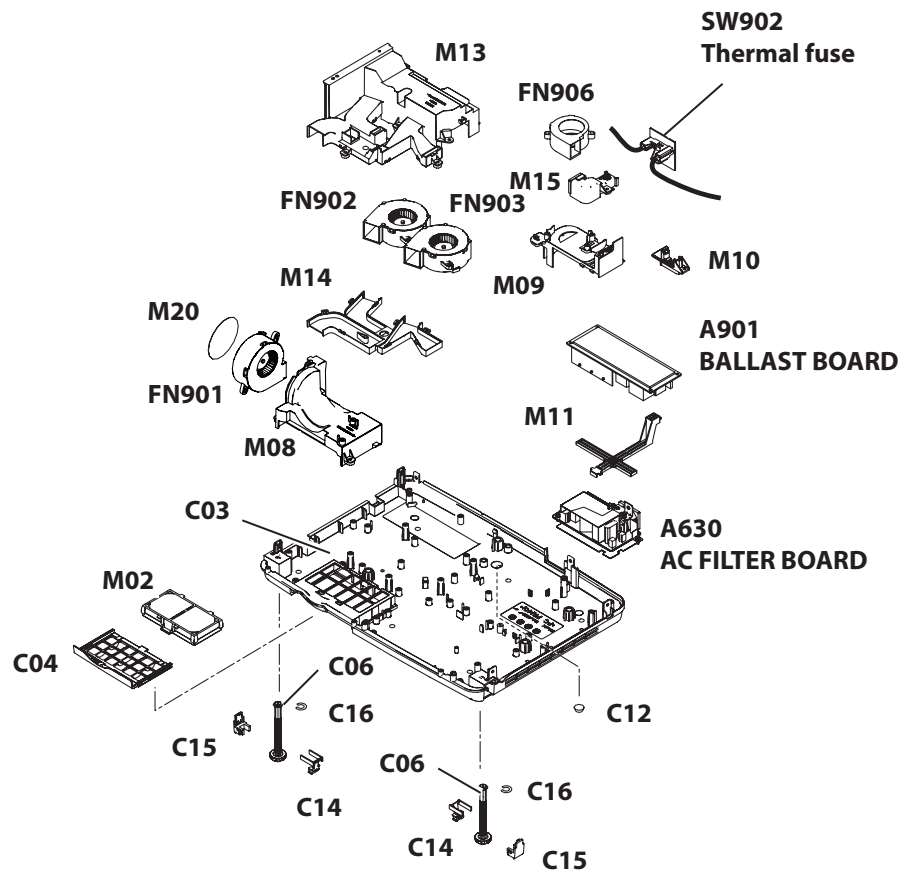


Cabinet bottom-1 assembly

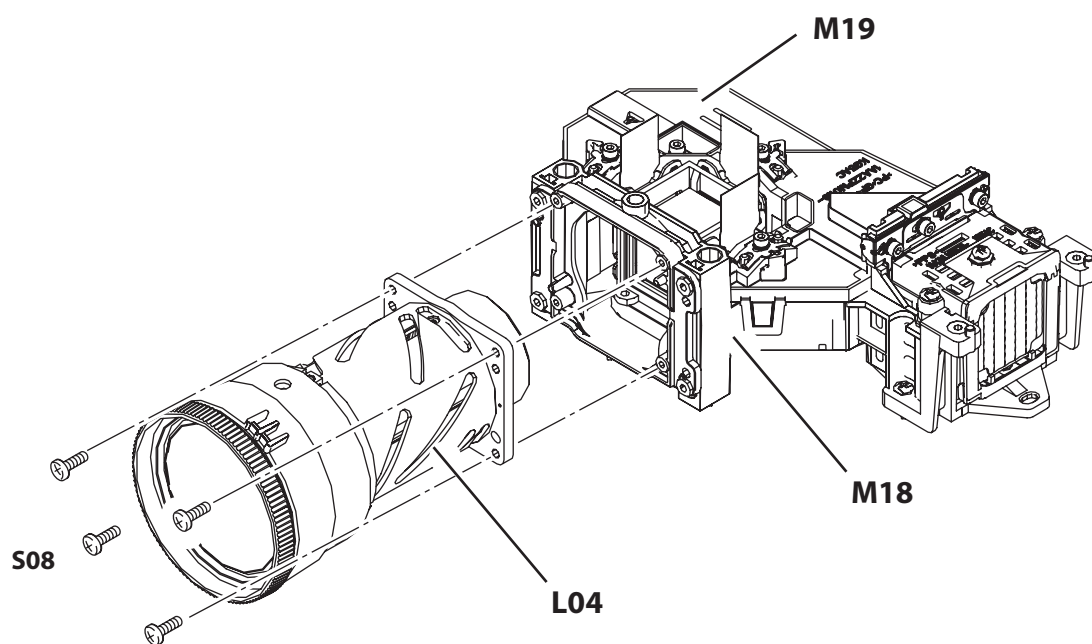


Parts Location Diagram

Cabinet bottom-2 assembly

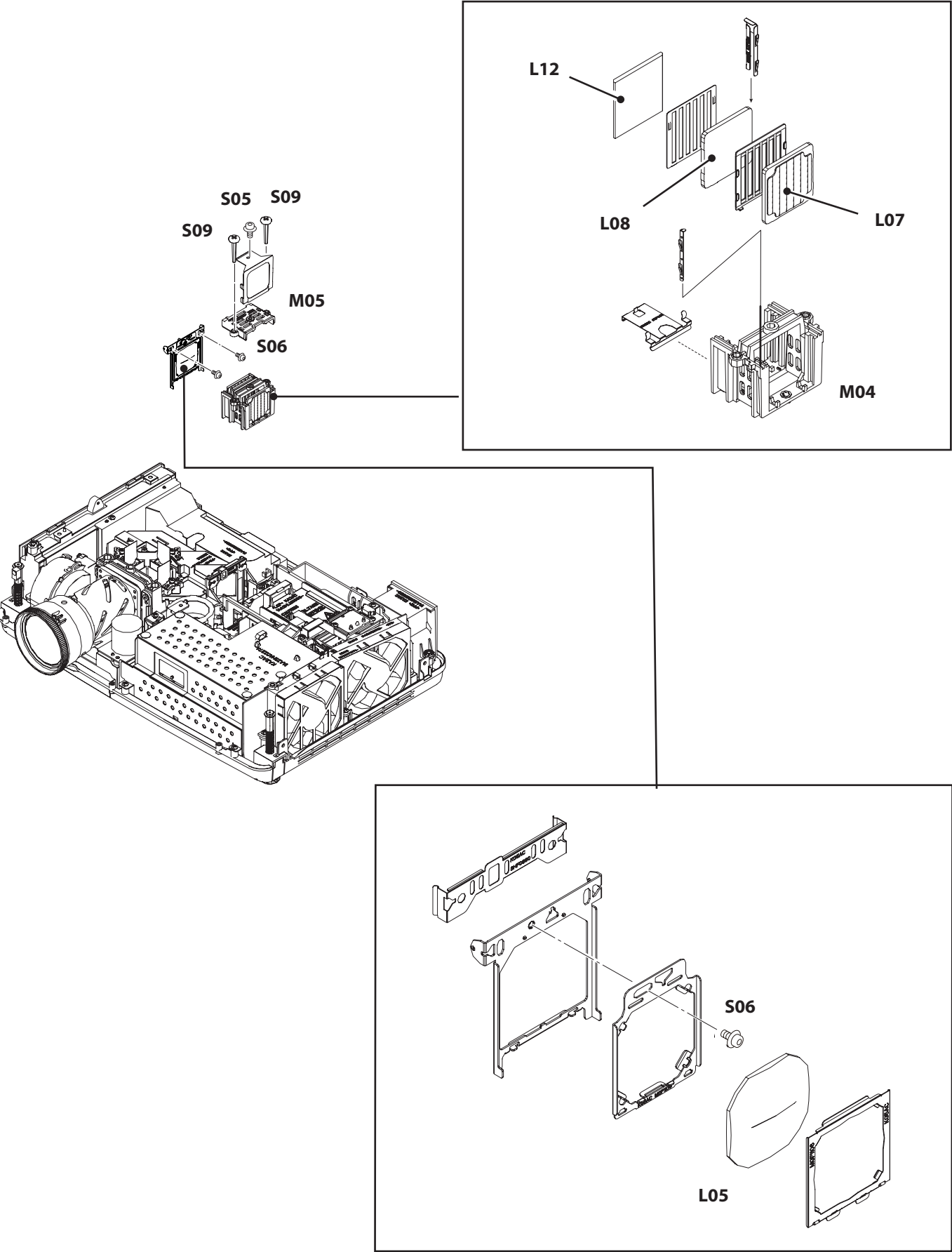


Projection lens



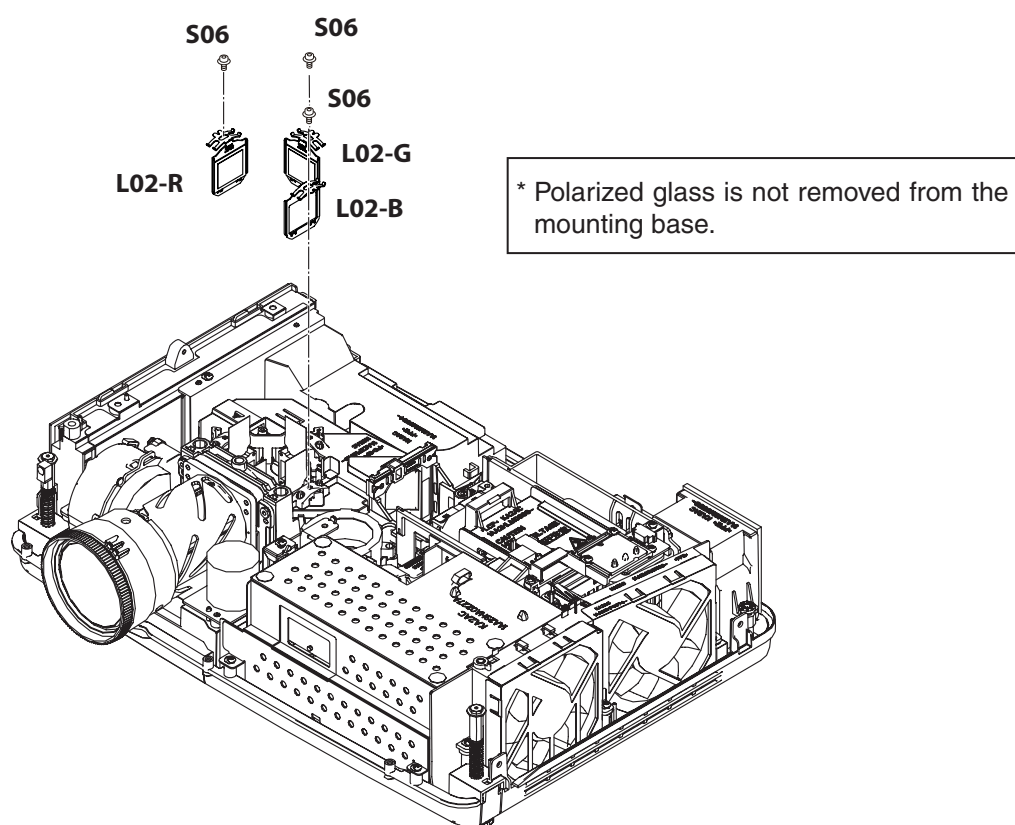
Parts Location Diagram

Integrator lens and condenser lens(out) assembly

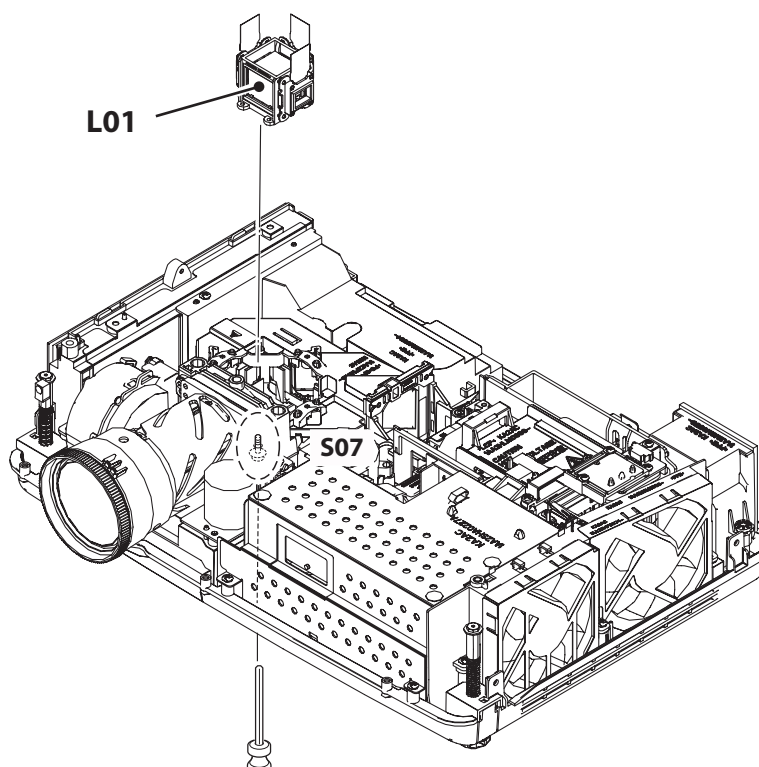


Parts Location Diagram

Polarized glass (OUT)

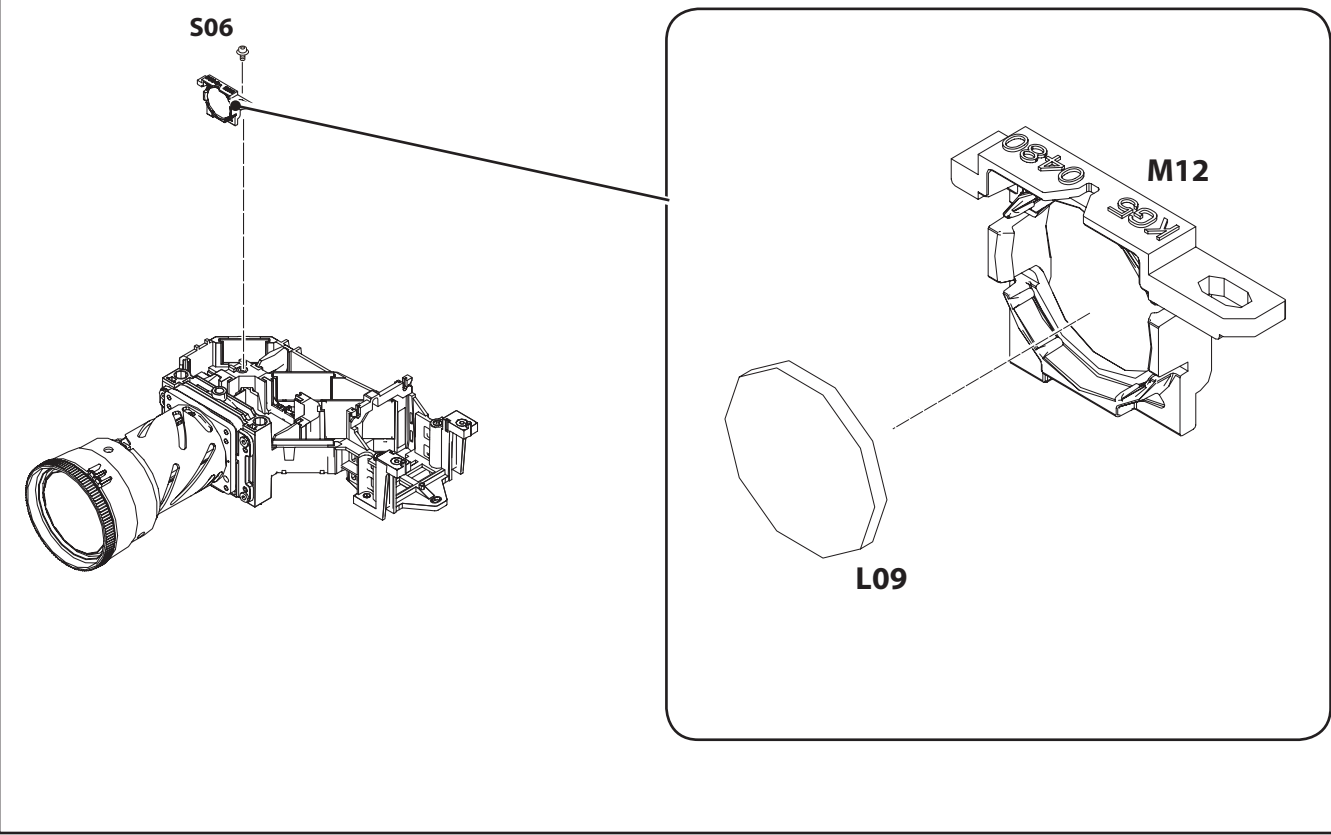


LCD panel/prism assembly



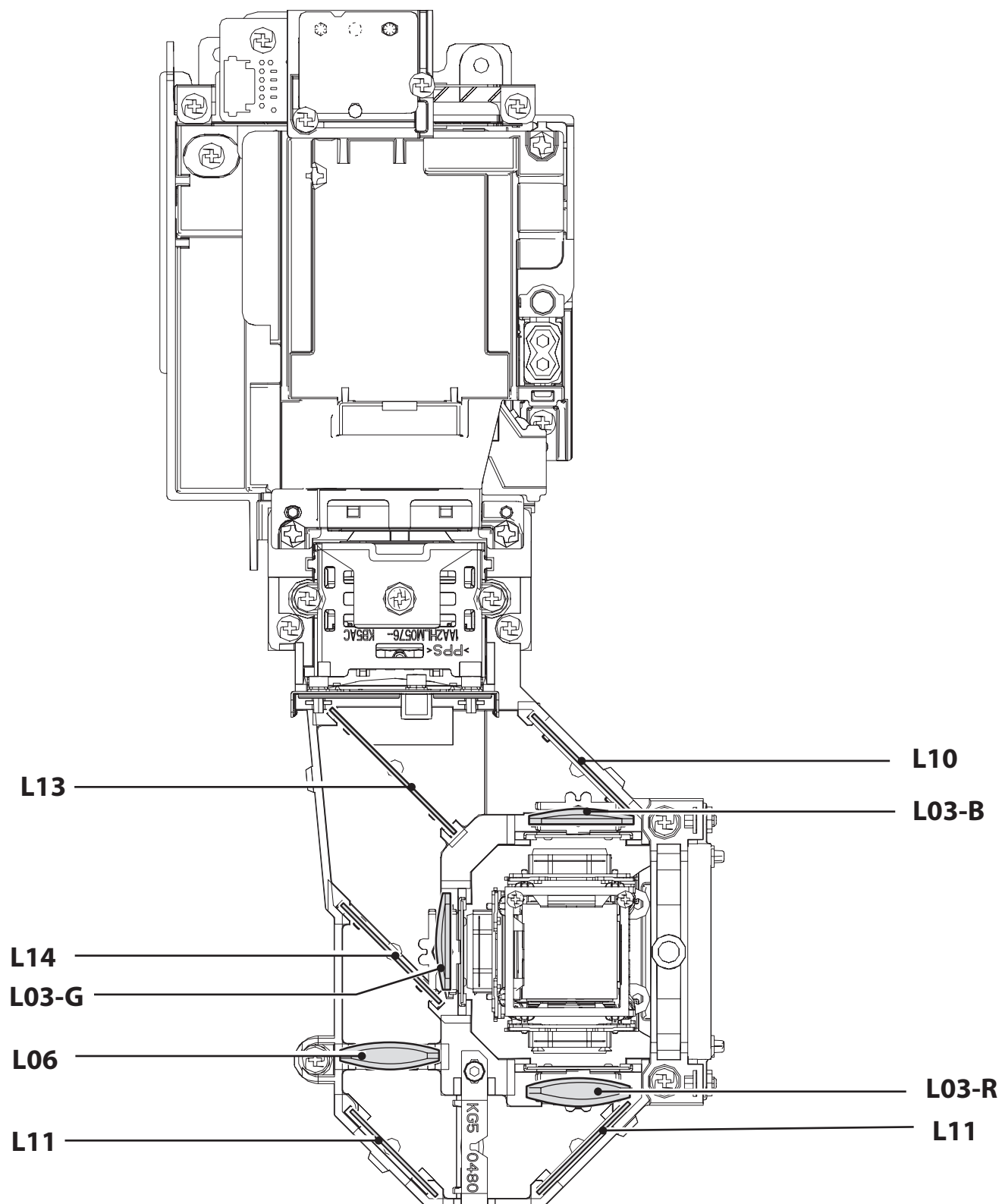
Parts Location Diagram

Relay lens (OUT) assembly



Parts Location Diagram

In the optical unit

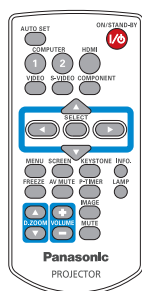
**CAUTION:**

Part must be placed in specified direction when replacing the optical parts. Please see "Optical Parts Disassembly" for further instructions.

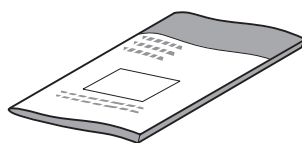
Parts Location Diagram

Accessories (see accessories parts list)

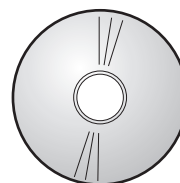
REMOTE CONTROL



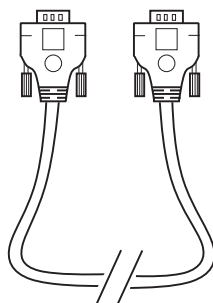
MANUAL



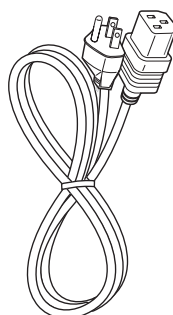
CD-ROM



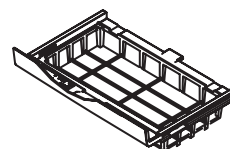
VGA CABLE



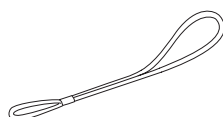
AC CORD



FILTER COVER



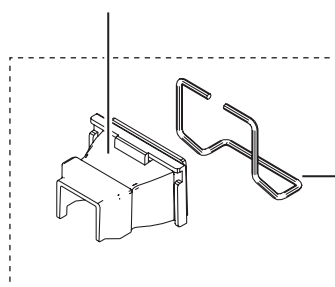
STRAP



CARRYING BAG



AC LOCK HOLDER



AC LOCK STOPPER

Mechanical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
PACKING MATERIALS					
	610 358 2702	CARTON CASE-KA2JC VX400U	M04	610 356 9550	HOLDER INT PBS BTM-KG5AC
	610 358 2719	CARTON CASE-LA2JC VX400E,VX400EJ	M05	610 356 9567	HOLDER INT PBS TOP-KG5AC
	610 358 2726	CARTON CASE-LA2LC VX400EA,VX400EAJ	M06	610 356 9406	LMP_HOUSE-KA2AC
	610 357 4721	CARTON CASE OUTER-KA2JC VX400U	M07	610 352 7451	HLD FLT DUCT SD-KA2AC
	610 357 4738	CARTON CASE OUTER-LA2YC VX400E	M08	610 357 9993	HLD FLT DUCT BTM-KA2AC
	610 357 4745	CARTON CASE OUTER-LA2ZC VX400EAJ	M09	610 352 7482	HLD FN LMP-KA2AC
	610 354 7756	POLY BAG 0440*0480*NC	M10	610 352 9097	HLD PULG-KA2AC
	610 353 7382	CASE ACC-KA2AC	M11	610 357 3137	HLD BALLAST-KA2JC
	610 352 7857	CUSHION TOP-KA2AC	M12	610 356 7372	MTG RELAY OUT(A)-KG5AC
	610 352 7833	CUSHION BTM-KA2AC	M13	610 358 3082	MTG DUCT PNL TOP-KA2JC
			M14	610 352 6720	MTG DUCT PNL BTM-KA2AC
			M15	610 352 7536	MTG DUCT LMP T-KA2AC
			M16	610 352 7581	MTG SP-KA2AC
			M17	610 353 1137	MTG EXH FN-KA2AC
			M18	610 353 4442	OPTICAL BASE BTM-KA2AC
			M19	610 353 3759	OPTICAL BASE TOP(A)-KG5AC
			M20	610 353 1151	SPC SHT FN-KA2AC
ACCESSORIES			SCREWS		
△ AC CORD			S01	411 031 9304	SCR BIN 3X8
UK	610 358 0197	COMPL, AC CORD-KC2JC	S02	412 077 9105	SPECIAL SCREW
EU	610 358 0203	COMPL, AC CORD-LC2JC	S03	411 077 8606	SCR TPG FLT 3X8
UK	610 358 0210	COMPL, AC CORD-LC2LC	S04	411 042 0406	SCR PAN 3X8
MANUAL			S05	411 192 5108	SCR PAN+SW+W 2.5X6
	610 356 4272	CD-ROM,OWNERS MANUAL-KA2JC	S06	412 077 8108	SPECIAL SCREW-2.5X6
	655 004 8219	SETUP INST-KA2JC VX400U	S07	312 070 3400	SPECIAL SCREW-3.0X10V
	655 004 8226	SETUP INST-LA2JC VX400E,VX400EJ	S08	411 191 6304	SCR BIN 2.5X8
	655 004 8233	SETUP INST-LA2LC VX400EA,VX400EAJ	S09	411 189 8303	SCR BIN 3X14
REMOTE CONTROL			OPTICAL PARTS		
	645 104 8738	ASSY,REMOCON MXCZ	L01	610 357 9597	ASSY,PNL/PSM-KA2JC
MISCELLANEOUS			L02-R	610 346 5562	ASSY,POL R IN-KG5AC
	610 358 0425	COMPL, VGA CABLE-KC2JC	L02-B	610 346 5555	ASSY,POL B IN-KG5AC
	610 343 0249	STRAP CAP-KT7AC	L02-G	610 355 2798	ASSY POL G IN-KA2AC
	610 356 8881	COVER FLT BOTTOM TTR-KA2JC	L03-R	645 099 0571	LENS,RELAY(IN)
	610 358 1620	CARRY BAG-KA2JC	L03-G	645 096 4657	LENS,CONDENSER(G)
	610 357 3700	HLD AC LOCK-KA2JC	L03-B	645 096 4657	LENS,CONDENSER(G)
	610 357 3694	STOPPER AC LOCK-KA2JC	L04	645 103 9170	LENS,PROJECTION
MECHANICAL PARTS			L05	645 099 0564	LENS,CONDENSER(OUT)
CABINET PARTS			L06	645 099 0571	LENS,RELAY(IN)
C01	610 354 7558	COVER LMP-KA2JC	L07	645 104 0114	LENS,INTEGRATOR(IN)
C02	610 356 8416	CAB FRONT-KA2JC		645 104 9872	LENS,INTEGRATOR(IN)
C03	610 356 7570	CAB BTM-KA2JC	L08	645 099 0595	LENS,INTEGRATOR(OUT)
C04	610 356 8560	COVER FLT BTM-KA2JC		645 104 4976	LENS,INTEGRATOR(OUT)
C05	610 357 7777	CAB TOP SERVICE-KA2JC	L09	645 099 0601	LENS,RELAY(OUT)
C06	610 356 8614	ASSY,ADJ SCREW STEM-KA2JC	L10	645 096 4701	MIRROR(B)
C07	610 346 9669	BUTTON CONTROL-KA2JC	L10	645 101 0247	MIRROR(B)
C08	610 354 5790	CAP LNS-KA2BC	L11	645 101 0254	MIRROR(R)
C09	610 354 7572	COVER FLT SD-KA2JC	L11	645 096 4718	MIRROR(R)
C10	610 344 1788	DEC INLAY LED-KF5AC	L12	645 104 4631	PRISM(PBS)
C11	610 343 0942	DEC INLAY RC-KG5AC	L13	645 104 6918	DICHROIC MIRROR (B)
C12	610 356 8867	DEC LEG-KA2JC	L14	645 104 6901	DICHROIC MIRROR (G)
C13	610 356 8478	PNL AV-KA2JC			
C14	610 357 5063	ADJ_CORE_KG5AC			
C15	610 356 8850	STD ADJ BTN-KA2JC			
C16	411 001 0300	RING E 5			
C17	610 357 3519	DEC SHEET XGA-KA2JC			
C18	610 357 3557	DEC SHEET NUMBER-KA2JC			
CHASSIS PARTS					
M03	610 349 0830	BUSH -KJ8AC			

Product safety should be considered when a component replacement is made in any area of a projector.
Components indicated by a Δ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR	CERAMIC	100P	K	50V	
					Rated Voltage
					Tolerance Symbols:
					Less than 10pF
					A : Not specified B : $\pm 0.1\text{pF}$ C : $\pm 0.25\text{pF}$
					D : $\pm 0.5\text{pF}$ E : $\pm 0.1\text{pF}$ F : $\pm 1\text{PF}$
					G : $\pm 2\text{pF}$ H : $\pm 0.1 -0\text{pF}$ L : $\pm 0 -0.1\text{pF}$
					R : $\pm 0.25 -0\text{pF}$ S : $\pm 0 -0.25\text{pF}$
					More than 10pF
					A : Not specified B : $\pm 0.1\%$ C : $\pm 0.25\%$
					D : $\pm 0.5\%$ F : $\pm 1\%$ G : $\pm 2\%$
					H : $\pm 3\%$ J : $\pm 5\%$ K : $\pm 10\%$
					L : $\pm 15\%$ M : $\pm 20\%$ N : $\pm 30\%$
					P : $\pm 100-0\%$ Q : $\pm 30-10\%$ T : $\pm 50-10\%$
					U : $\pm 75-10\%$ V : $\pm 20-10\%$ W : $\pm 100-10\%$
					X : $\pm 40-20\%$ Y : $\pm 150-10\%$ Z : $\pm 80-20\%$
					Rated value: P=pico farad, U=micro farad
					Material:
					CERAMIC..... Ceramic
					MT-PAPER..... Metallized Paper
					POLYESTER..... Polyester
					MT-POLYEST.....Metallized Polyester
					POLYPRO..... Polypropylene
					MT-POLYPRO.....Metallized Polypropylene
					COMPO FILM..... Composite film
					MT-COMPO.....Metallized Composite
					STYRENE..... Styrene
					TA-SOLID..... Tantalum Oxide Solid Electrolytic
					AL-SOLID..... Aluminium Solid Electrolytic
					ELECT..... Aluminum Foil Electrolytic
					NP-ELECT.....Non-polarised Electrolytic
					OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic
					POS-SOLID..... Polymerized Organic Semiconductive
					DL-ELECT..... Double Layered Electrolytic
					PPS-FILM.....Polyphenylene Sulfide Film
					MT-PPS-FILM.....Metalized Polyphenylene Sulfide Film
					MT-PEN-FILM.....Metalized Polyethylenenaphthalate Film
					CAPACITOR.....Other

RESISTOR	CARBON	4.7K	J	A	1/4W	
						Rated Wattage
						Performance Symbols:
						A: General B: Non flammable Z: Low noise
						Other: Temperature coefficient
						T : $\pm 10\text{ppm}/^\circ\text{C}$ U : $\pm 25\text{ppm}/^\circ\text{C}$ C : $\pm 50\text{ppm}/^\circ\text{C}$
						D : $\pm 100\text{ppm}/^\circ\text{C}$ E : $\pm 200\text{ppm}/^\circ\text{C}$ F : $\pm 250\text{ppm}/^\circ\text{C}$
						G : $\pm 350\text{ppm}/^\circ\text{C}$ H : $\pm 1000\text{ppm}/^\circ\text{C}\pm 10\%$ W : $\pm 1200\text{ppm}/^\circ\text{C}\pm 10\%$
						Y : $\pm 1400\text{ppm}/^\circ\text{C}\pm 10\%$ J : $\pm 2000\text{ppm}/^\circ\text{C}\pm 10\%$ K : $\pm 2400\text{ppm}/^\circ\text{C}\pm 10\%$
						L : $\pm 2700\text{ppm}/^\circ\text{C}\pm 10\%$ M : $\pm 3000\text{ppm}/^\circ\text{C}\pm 10\%$ N : $\pm 3300\text{ppm}/^\circ\text{C}\pm 10\%$
						P : $\pm 3600\text{ppm}/^\circ\text{C}\pm 10\%$ Q : $\pm 3900\text{ppm}/^\circ\text{C}\pm 10\%$ R : $\pm 4200\text{ppm}/^\circ\text{C}\pm 10\%$
						S : $\pm 4300\text{ppm}/^\circ\text{C}\pm 10\%$ V : $\pm 4500\text{ppm}/^\circ\text{C}\pm 10\%$ X : $\pm 8000\text{ppm}/^\circ\text{C}\pm 10\%$
						Tolerance Symbols:
						A : $\pm 0.05\%$ B : $\pm 0.1\%$ C : $\pm 0.25\%$ D : $\pm 0.5\%$
						F : $\pm 1\%$ G : $\pm 2\%$ J : $\pm 5\%$ K : $\pm 10\%$
						M : $\pm 20\%$ P : $\pm 5-15\%$ Z : 0 ohm
						Rated value, ohms:
						K: 1,000, M: 1,000,000
						Material:
						CARBON..... Carbon
						MT-FILM..... Metal Film
						OXIDE-MT..... Oxide Metal Film
						SOLID..... Composition
						MT-GLAZE..... Metal Glaze
						WIRE WOUND...Wire Wound
						CERAMIC RES.. Ceramic
						FUSIBLE RES....Fusible
						RESISTOROther

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
ASSEMBLED BOARDS					
△ A1000	655 004 8387	ASSY,PWB,MAIN KA2JC	Q5032	305 147 2218	TR 2SA1037AK-S-T146
△ A1001	655 004 8554	ASSY,PWB,AV KA2JC		405 220 3016	TR ISA1235AC1F
△ A1002	655 004 8561	ASSY,PWB,RC KA2JC		305 134 5928	TR 2SA1037AK-T146-R
△ A1003	655 004 8578	ASSY,PWB,ID CONNECT KA2JC		405 220 3115	TR ISA1235AC1E
△ A600	655 004 8424	ASSY,PWB,POWER KA2JC	Q5033	305 147 2218	TR 2SA1037AK-S-T146
△ A630	655 004 8936	ASSY,PWB,AC FILTER KA2JC		405 220 3016	TR ISA1235AC1F
△ A604	655 005 0045	ASSY,PWB,SUB POWER KA2JC		305 134 5928	TR 2SA1037AK-T146-R
OUT OF CIRCUIT BOARD				405 220 3115	TR ISA1235AC1E
L901	952 001 9431	CORE,CLAMP	Q5035	405 221 7914	TR HN1C01FE-Y
△ A901	645 103 7121	UNIT,BALLAST	Q5036	305 217 7815	TR HN1B04FE-Y TE85L
△ A901A	610 345 4276	CABLE,BALLAST KR5AC	Q5037	305 147 2218	TR 2SA1037AK-S-T146
△ FN901	645 103 9774	MOTOR,BLW DC 2.4W		405 220 3016	TR ISA1235AC1F
△ FN902	645 103 9774	MOTOR,BLW DC 2.4W		305 134 5928	TR 2SA1037AK-T146-R
△ FN903	645 103 9774	MOTOR,BLW DC 2.4W		405 220 3115	TR ISA1235AC1E
△ FN904	645 104 1098	MOTOR,FAN DC 2.52W	Q5060	406 021 7804	TR 2SC4617
△ FN905	645 104 1104	MOTOR,FAN DC 2.52W	Q5061	405 221 7914	TR HN1C01FE-Y
△ FN906	645 104 1081	MOTOR,BLW DC 2.04W	Q5062	405 221 7914	TR HN1C01FE-Y
K10A1	312 073 0406	SPECIAL SCREW	Q5602	305 217 6917	TR TPC6107 TE85L
K10A2	312 073 0406	SPECIAL SCREW	Q5603	406 021 7804	TR 2SC4617
K10B1	312 073 0406	SPECIAL SCREW	Q5615	305 217 7815	TR HN1B04FE-Y TE85L
K10B2	312 073 0406	SPECIAL SCREW	Q5700	305 217 7815	TR HN1B04FE-Y TE85L
K20A1	312 073 0406	SPECIAL SCREW	Q5701	305 174 1819	TR CPH3424-TL-E
K20A2	312 073 0406	SPECIAL SCREW	Q5704	305 158 9213	TR IMZ4-T108
SP901	652 003 2699	SPEAKER,8	Q5753	305 217 6917	TR TPC6107 TE85L
SW901	645 097 3925	SWITCH,MICRO 1P-2T	Q5755	406 021 7804	TR 2SC4617
△ Z6B&6C(SW902)			Q6845	405 221 7914	TR HN1C01FE-Y
	652 003 6864	ASSY,WIRE	Q6846	405 221 7914	TR HN1C01FE-Y
A1000 655 004 8387 ASSY,PWB,MAIN KA2JC			Q7801	406 021 7804	TR 2SC4617
TRANSISTOR			Q7802	406 021 7804	TR 2SC4617
Q1001	406 021 7804	TR 2SC4617	Q7805	305 158 9213	TR IMZ4-T108
Q1002	406 021 7804	TR 2SC4617	Q7806	305 173 9816	TR 2SC3928A1R
Q1003	305 217 7815	TR HN1B04FE-Y TE85L		305 173 9915	TR 2SC3928A1S
Q1004	305 217 7815	TR HN1B04FE-Y TE85L	Q7807	305 158 9213	TR IMZ4-T108
Q1005	406 021 7804	TR 2SC4617	Q7811	305 128 9618	TR 2SC2411K-T146-Q
Q1006	305 217 7815	TR HN1B04FE-Y TE85L	Q7812	305 128 9618	TR 2SC2411K-T146-Q
Q1007	406 021 7804	TR 2SC4617	Q7813	305 217 7815	TR HN1B04FE-Y TE85L
Q1008	406 021 7804	TR 2SC4617	Q7814	305 217 7815	TR HN1B04FE-Y TE85L
Q1012	406 021 7804	TR 2SC4617	Q7842	305 217 7815	TR HN1B04FE-Y TE85L
Q1021	406 021 7804	TR 2SC4617	Q7864	305 217 7815	TR HN1B04FE-Y TE85L
Q1031	305 217 7815	TR HN1B04FE-Y TE85L	Q9602	305 211 1918	TR RJU002N06
Q1041	305 217 7815	TR HN1B04FE-Y TE85L	Q9603	305 211 1918	TR RJU002N06
Q1051	305 147 2218	TR 2SA1037AK-S-T146	Q9604	305 211 1918	TR RJU002N06
	405 220 3016	TR ISA1235AC1F	Q9631	305 217 7815	TR HN1B04FE-Y TE85L
	305 134 5928	TR 2SA1037AK-T146-R	INTEGRATED CIRCUIT		
	405 220 3115	TR ISA1235AC1E	IC001	410 731 1908	IC TPA3111D1PWPR
Q2011	406 021 7804	TR 2SC4617	IC1371	410 656 8600	IC 24AA64T-I/MS
Q2021	406 021 7804	TR 2SC4617	IC301	409 711 7019	IC PW190-10SG
Q2031	406 021 7804	TR 2SC4617	IC3582	409 695 9313	IC RT9711CGB
Q3051	406 021 7804	TR 2SC4617	IC3801	309 495 2517	IC SP3232ECY/TR
Q3601	406 021 7804	TR 2SC4617	IC3802	310 349 4103	IC TC7W241FU(TE12L)
Q3603	406 021 7804	TR 2SC4617	IC3803	310 349 4103	IC TC7W241FU(TE12L)
Q4012	305 147 2218	TR 2SA1037AK-S-T146	IC3804	310 349 4103	IC TC7W241FU(TE12L)
	405 220 3016	TR ISA1235AC1F	IC3850	409 706 1718	IC LIS331DLHTR
	305 134 5928	TR 2SA1037AK-T146-R	IC4001	410 686 4702	IC EL5306IUZ-T7
	405 220 3115	TR ISA1235AC1E	IC401	409 683 1718	IC L3E07111K0A
Q4014	305 217 7815	TR HN1B04FE-Y TE85L	IC4701	309 428 8428	IC TC7WT125FU-TE12L
Q5021	406 021 7804	TR 2SC4617	IC5001	410 718 8708	IC TLV320AIC3105IRHBR
Q5030	406 021 7804	TR 2SC4617	IC5002	309 438 5513	IC TC4052BFT
Q5031	405 221 7914	TR HN1C01FE-Y		409 714 3216	IC TC4052BFT(EL N M)
			IC5003	309 039 7817	IC NJM4558M-TE2
			IC501	409 705 3911	IC L3E06200P0A
			IC5301	310 596 0101	IC 74LVC14APW,118
			IC531	409 705 3911	IC L3E06200P0A
			IC5602	410 731 2103	IC XC6204F502PR-G
			IC561	409 705 3911	IC L3E06200P0A
			IC5621	410 651 0104	IC R1131D101B-TR-F
			IC5821	410 706 4804	IC TPS54225PWPR
			IC5841	309 598 5217	IC TAR5S25
			IC5861	410 706 4804	IC TPS54225PWPR
			IC592	309 461 7822	IC PQ20WZ11

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
IC7811	410 706 4705	IC TPS54286PWPR	C1017	303 442 0519	CERAMIC 0.068U K 16V
IC7841	309 461 7822	IC PQ20WZ11		303 454 0415	CERAMIC 0.068U K 16V
IC8001	409 698 5510	IC SI9127ACTU	C1018	303 442 0519	CERAMIC 0.068U K 16V
IC801	410 732 0009	IC M29W640FT70N6E-KA2JC		303 454 0415	CERAMIC 0.068U K 16V
IC8081	409 695 9313	IC RT9711CGB	C1019	303 409 3426	CERAMIC 0.1U K 16V
IC8091	409 704 7613	IC LV59012M-TLM-H		303 453 8610	CERAMIC 0.1U K 16V
IC8301	309 579 6516	IC PCM1754DBQR		303 453 8917	CERAMIC 0.1U K 16V
IC841	409 699 3010	IC PT7M7809STE	C1021	303 396 9514	CERAMIC 2.2U K 10V
IC8801	410 731 9904	IC AX11005LF-KA2JC		303 382 7814	CERAMIC 2.2U K 10V
IC8804	409 699 3010	IC PT7M7809STE	C1041	303 409 3426	CERAMIC 0.1U K 16V
IC8821	410 654 4802	IC ADT75BRMZ-REEL		303 453 8610	CERAMIC 0.1U K 16V
IC8831	410 654 4802	IC ADT75BRMZ-REEL		303 453 8917	CERAMIC 0.1U K 16V
IC9001	409 706 2012	IC L3E08030F0A	C1049	303 409 3426	CERAMIC 0.1U K 16V
IC9883	410 625 2004	IC TC7WH14FU(Te12L,F)		303 453 8610	CERAMIC 0.1U K 16V
IC9885	410 681 7005	IC LC87F2G08AUSSOPTLM-E		303 453 8917	CERAMIC 0.1U K 16V
IC9886	310 474 1503	IC HD74LV1G126A	C1054	303 294 6110	CERAMIC 100P J 50V
CAPACITOR				303 454 0910	CERAMIC 100P J 50V
C001	403 467 0911	CERAMIC 0.1U K 25V		303 453 6319	CERAMIC 100P J 50V
C002	403 454 9217	CERAMIC 0.47U K 25V	C1055	303 309 2519	CERAMIC 27P J 50V
C005	403 454 9217	CERAMIC 0.47U K 25V		403 456 4616	CERAMIC 27P J 50V
C006	403 467 0911	CERAMIC 0.1U K 25V	C1056	303 454 0019	CERAMIC 68P J 50V
C007	303 396 9613	CERAMIC 1U K 25V		303 453 6814	CERAMIC 68P J 50V
	303 397 7618	CERAMIC 1U K 25V	C1061	303 437 4614	CERAMIC 10U K 25V
	403 478 5912	CERAMIC 1U K 25V	C1092	303 368 7319	CERAMIC 10U K 6.3V
C008	303 396 9613	CERAMIC 1U K 25V		303 358 3215	CERAMIC 10U K 6.3V
	303 397 7618	CERAMIC 1U K 25V	C1103	303 409 3426	CERAMIC 0.1U K 16V
	403 478 5912	CERAMIC 1U K 25V		303 453 8610	CERAMIC 0.1U K 16V
C009	303 396 9613	CERAMIC 1U K 25V		303 453 8917	CERAMIC 0.1U K 16V
	303 397 7618	CERAMIC 1U K 25V	C1105	303 409 3426	CERAMIC 0.1U K 16V
	403 478 5912	CERAMIC 1U K 25V		303 453 8610	CERAMIC 0.1U K 16V
C010	303 394 5211	CERAMIC 22U K 10V		303 453 8917	CERAMIC 0.1U K 16V
	303 382 7814	CERAMIC 2.2U K 10V	C1331	303 276 1911	CERAMIC 22P J 50V
C011	303 396 9613	CERAMIC 1U K 25V	C1332	303 309 2519	CERAMIC 27P J 50V
	303 397 7618	CERAMIC 1U K 25V		403 456 4616	CERAMIC 27P J 50V
	403 478 5912	CERAMIC 1U K 25V	C1371	303 409 3426	CERAMIC 0.1U K 16V
C018	303 396 9613	CERAMIC 1U K 25V		303 453 8610	CERAMIC 0.1U K 16V
	303 397 7618	CERAMIC 1U K 25V		303 453 8917	CERAMIC 0.1U K 16V
	403 478 5912	CERAMIC 1U K 25V	C1871	403 455 1012	CERAMIC 1U K 10V
C019	303 396 9613	CERAMIC 1U K 25V		303 433 1112	CERAMIC 1U K 10V
	303 397 7618	CERAMIC 1U K 25V	C1872	403 455 1012	CERAMIC 1U K 10V
	403 478 5912	CERAMIC 1U K 25V		303 433 1112	CERAMIC 1U K 10V
C020	404 128 5204	ELECT 100U M 25V	C2003	303 368 7319	CERAMIC 10U K 6.3V
	303 376 3112	ELECT 100U M 25V		303 358 3215	CERAMIC 10U K 6.3V
C021	404 128 5204	ELECT 100U M 25V	C2007	303 398 3312	ELECT 47U M 10V
	303 376 3112	ELECT 100U M 25V	C2891	303 409 3426	CERAMIC 0.1U K 16V
C1002	303 437 4614	CERAMIC 10U K 25V		303 453 8610	CERAMIC 0.1U K 16V
C1004	303 409 3426	CERAMIC 0.1U K 16V		303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V	C2892	303 305 8812	CERAMIC 47P J 50V
	303 453 8917	CERAMIC 0.1U K 16V		303 454 1610	CERAMIC 47P J 50V
C1006	303 409 3426	CERAMIC 0.1U K 16V		303 453 7217	CERAMIC 47P J 50V
	303 453 8610	CERAMIC 0.1U K 16V	C3001	303 294 6110	CERAMIC 100P J 50V
	303 453 8917	CERAMIC 0.1U K 16V		303 454 0910	CERAMIC 100P J 50V
C1007	303 409 3426	CERAMIC 0.1U K 16V		303 453 6319	CERAMIC 100P J 50V
	303 453 8610	CERAMIC 0.1U K 16V	C301	303 409 3426	CERAMIC 0.1U K 16V
	303 453 8917	CERAMIC 0.1U K 16V		303 453 8610	CERAMIC 0.1U K 16V
C1008	303 409 3426	CERAMIC 0.1U K 16V		303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V	C3011	303 294 6110	CERAMIC 100P J 50V
	303 453 8917	CERAMIC 0.1U K 16V		303 454 0910	CERAMIC 100P J 50V
C1009	303 409 3426	CERAMIC 0.1U K 16V		303 453 6319	CERAMIC 100P J 50V
	303 453 8610	CERAMIC 0.1U K 16V	C302	303 368 7319	CERAMIC 10U K 6.3V
	303 453 8917	CERAMIC 0.1U K 16V		303 358 3215	CERAMIC 10U K 6.3V
C1011	303 442 0519	CERAMIC 0.068U K 16V	C3021	303 294 6110	CERAMIC 100P J 50V
	303 454 0415	CERAMIC 0.068U K 16V		303 454 0910	CERAMIC 100P J 50V
C1012	303 409 3426	CERAMIC 0.1U K 16V		303 453 6319	CERAMIC 100P J 50V
	303 453 8610	CERAMIC 0.1U K 16V	C303	303 282 5118	CERAMIC 470P K 50V
	303 453 8917	CERAMIC 0.1U K 16V		303 453 9211	CERAMIC 470P K 50V
C1014	303 442 0519	CERAMIC 0.068U K 16V		303 453 8719	CERAMIC 470P K 50V
	303 454 0415	CERAMIC 0.068U K 16V	C3031	303 294 6110	CERAMIC 100P J 50V
C1016	303 442 0519	CERAMIC 0.068U K 16V		303 454 0910	CERAMIC 100P J 50V
	303 454 0415	CERAMIC 0.068U K 16V		303 453 6319	CERAMIC 100P J 50V
			C304	303 409 3426	CERAMIC 0.1U K 16V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C3051	303 453 8610	CERAMIC	0.1U K	16V	C328	303 453 8610	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 294 6110	CERAMIC	100P J	50V		303 409 3426	CERAMIC	0.1U K	16V
	303 454 0910	CERAMIC	100P J	50V		303 453 8610	CERAMIC	0.1U K	16V
C3052	303 453 6319	CERAMIC	100P J	50V	C329	303 453 8917	CERAMIC	0.1U K	16V
	303 396 9514	CERAMIC	2.2U K	10V		303 282 5118	CERAMIC	470P K	50V
	303 382 7814	CERAMIC	2.2U K	10V		303 453 9211	CERAMIC	470P K	50V
C3053	303 409 3426	CERAMIC	0.1U K	16V	C330	303 453 8719	CERAMIC	470P K	50V
	303 453 8610	CERAMIC	0.1U K	16V		403 457 2512	CERAMIC	0.47U K	10V
	303 453 8917	CERAMIC	0.1U K	16V		303 376 6311	CERAMIC	0.47U K	10V
C306	303 409 3426	CERAMIC	0.1U K	16V	C331	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C3061	303 294 6110	CERAMIC	100P J	50V	C332	303 282 5118	CERAMIC	470P K	50V
	303 454 0910	CERAMIC	100P J	50V		303 453 9211	CERAMIC	470P K	50V
	303 453 6319	CERAMIC	100P J	50V		303 453 8719	CERAMIC	470P K	50V
C307	303 282 5118	CERAMIC	470P K	50V	C333	303 409 3426	CERAMIC	0.1U K	16V
	303 453 9211	CERAMIC	470P K	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8719	CERAMIC	470P K	50V		303 453 8917	CERAMIC	0.1U K	16V
C308	303 409 3426	CERAMIC	0.1U K	16V	C334	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C309	303 409 3426	CERAMIC	0.1U K	16V	C335	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C310	303 368 7319	CERAMIC	10U K	6.3V	C336	303 282 5118	CERAMIC	470P K	50V
	303 358 3215	CERAMIC	10U K	6.3V		303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V		303 453 8719	CERAMIC	470P K	50V
C311	303 453 9211	CERAMIC	470P K	50V	C337	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8719	CERAMIC	470P K	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C312	303 453 8610	CERAMIC	0.1U K	16V	C338	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C313	303 453 8610	CERAMIC	0.1U K	16V	C339	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C314	303 282 5118	CERAMIC	470P K	50V	C341	303 409 3426	CERAMIC	0.1U K	16V
	303 453 9211	CERAMIC	470P K	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8719	CERAMIC	470P K	50V		303 453 8917	CERAMIC	0.1U K	16V
C315	303 368 7319	CERAMIC	10U K	6.3V	C342	303 409 3426	CERAMIC	0.1U K	16V
	303 358 3215	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C316	303 453 8610	CERAMIC	0.1U K	16V	C343	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C317	303 453 8610	CERAMIC	0.1U K	16V	C344	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C318	303 453 8610	CERAMIC	0.1U K	16V	C346	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C319	303 282 5118	CERAMIC	470P K	50V	C347	303 409 3426	CERAMIC	0.1U K	16V
	303 453 9211	CERAMIC	470P K	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8719	CERAMIC	470P K	50V		303 453 8917	CERAMIC	0.1U K	16V
C320	303 368 7319	CERAMIC	10U K	6.3V	C348	303 409 3426	CERAMIC	0.1U K	16V
	303 358 3215	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C321	303 453 8610	CERAMIC	0.1U K	16V	C3501	303 396 9613	CERAMIC	1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V		303 397 7618	CERAMIC	1U K	25V
	303 409 3426	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
C322	303 453 8610	CERAMIC	0.1U K	16V	C3502	303 396 9613	CERAMIC	1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V		303 397 7618	CERAMIC	1U K	25V
	303 282 5118	CERAMIC	470P K	50V		403 478 5912	CERAMIC	1U K	25V
C323	303 453 9211	CERAMIC	470P K	50V	C3503	403 467 0911	CERAMIC	0.1U K	25V
	303 453 8719	CERAMIC	470P K	50V		303 396 9613	CERAMIC	1U K	25V
	303 409 3426	CERAMIC	0.1U K	16V		303 397 7618	CERAMIC	1U K	25V
C324	303 453 8610	CERAMIC	0.1U K	16V	C3504	403 478 5912	CERAMIC	1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V		303 396 9613	CERAMIC	1U K	25V
	303 409 3426	CERAMIC	0.1U K	16V		303 397 7618	CERAMIC	1U K	25V
C326	303 453 8610	CERAMIC	0.1U K	16V	C3506	303 381 5316	ELECT	100U M	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 437 4614	CERAMIC	10U K	25V
	303 409 3426	CERAMIC	0.1U K	16V		403 478 5714	CERAMIC	10U K	25V
C327	303 409 3426	CERAMIC	0.1U K	16V					

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C3509	303 396 9613	CERAMIC	1U K	25V		303 453 8917	CERAMIC	0.1U K	16V
	303 397 7618	CERAMIC	1U K	25V	C3584	303 235 1013	CERAMIC	220P J	50V
	403 478 5912	CERAMIC	1U K	25V		303 157 4215	CERAMIC	220P J	50V
C351	303 409 3426	CERAMIC	0.1U K	16V	C3598	303 394 5815	CERAMIC	4.7U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C3599	403 455 1012	CERAMIC	1U K	10V
	303 453 8917	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
C3511	303 396 9613	CERAMIC	1U K	25V	C361	403 455 1012	CERAMIC	1U K	10V
	303 397 7618	CERAMIC	1U K	25V		303 433 1112	CERAMIC	1U K	10V
	403 478 5912	CERAMIC	1U K	25V	C362	403 455 1012	CERAMIC	1U K	10V
C352	303 409 3426	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
	303 453 8610	CERAMIC	0.1U K	16V	C3621	403 455 1616	CERAMIC	10U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C3622	403 455 1616	CERAMIC	10U K	16V
C3524	303 235 1013	CERAMIC	220P J	50V	C3623	403 455 1616	CERAMIC	10U K	16V
	303 157 4215	CERAMIC	220P J	50V	C3625	403 455 1616	CERAMIC	10U K	16V
C353	303 409 3426	CERAMIC	0.1U K	16V	C3626	403 455 1616	CERAMIC	10U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C3627	403 455 1616	CERAMIC	10U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C363	403 455 1012	CERAMIC	1U K	10V
C3531	303 396 9613	CERAMIC	1U K	25V		303 433 1112	CERAMIC	1U K	10V
	303 397 7618	CERAMIC	1U K	25V	C364	303 454 0613	CERAMIC	10000P K	50V
	403 478 5912	CERAMIC	1U K	25V		303 441 9810	CERAMIC	0.01U K	50V
C3532	303 396 9613	CERAMIC	1U K	25V	C365	303 442 0519	CERAMIC	0.068U K	16V
	303 397 7618	CERAMIC	1U K	25V		303 454 0415	CERAMIC	0.068U K	16V
	403 478 5912	CERAMIC	1U K	25V	C366	303 409 3426	CERAMIC	0.1U K	16V
C3533	403 467 0911	CERAMIC	0.1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C3534	303 396 9613	CERAMIC	1U K	25V		303 453 8917	CERAMIC	0.1U K	16V
	303 397 7618	CERAMIC	1U K	25V	C367	303 409 3426	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C3536	303 381 5316	ELECT	100U M	16V		303 453 8917	CERAMIC	0.1U K	16V
C3538	303 437 4614	CERAMIC	10U K	25V	C368	303 409 3426	CERAMIC	0.1U K	16V
	403 478 5714	CERAMIC	10U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C3539	303 396 9613	CERAMIC	1U K	25V		303 453 8917	CERAMIC	0.1U K	16V
	303 397 7618	CERAMIC	1U K	25V	C369	303 409 3426	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C354	303 409 3426	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C370	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C3541	303 396 9613	CERAMIC	1U K	25V		303 453 8917	CERAMIC	0.1U K	16V
	303 397 7618	CERAMIC	1U K	25V	C371	303 409 3426	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C355	303 409 3426	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C372	403 457 2512	CERAMIC	0.47U K	10V
	303 453 8917	CERAMIC	0.1U K	16V		303 376 6311	CERAMIC	0.47U K	10V
C3554	303 235 1013	CERAMIC	220P J	50V	C373	403 457 2512	CERAMIC	0.47U K	10V
	303 157 4215	CERAMIC	220P J	50V		303 376 6311	CERAMIC	0.47U K	10V
C356	303 409 3426	CERAMIC	0.1U K	16V	C374	403 457 2512	CERAMIC	0.47U K	10V
	303 453 8610	CERAMIC	0.1U K	16V		303 376 6311	CERAMIC	0.47U K	10V
	303 453 8917	CERAMIC	0.1U K	16V	C377	303 409 3426	CERAMIC	0.1U K	16V
C3561	303 396 9613	CERAMIC	1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
	303 397 7618	CERAMIC	1U K	25V		303 453 8917	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V	C378	303 409 3426	CERAMIC	0.1U K	16V
C3562	303 396 9613	CERAMIC	1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
	303 397 7618	CERAMIC	1U K	25V		303 453 8917	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V	C379	303 409 3426	CERAMIC	0.1U K	16V
C3563	403 467 0911	CERAMIC	0.1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C3564	303 396 9613	CERAMIC	1U K	25V		303 453 8917	CERAMIC	0.1U K	16V
	303 397 7618	CERAMIC	1U K	25V	C380	303 409 3426	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C3566	303 381 5316	ELECT	100U M	16V		303 453 8917	CERAMIC	0.1U K	16V
C3568	303 437 4614	CERAMIC	10U K	25V	C3801	403 455 1012	CERAMIC	1U K	10V
	403 478 5714	CERAMIC	10U K	25V		303 433 1112	CERAMIC	1U K	10V
C3569	303 409 3426	CERAMIC	0.1U K	16V	C3802	403 455 1012	CERAMIC	1U K	10V
	303 453 8610	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
	303 453 8917	CERAMIC	0.1U K	16V	C3803	403 455 1012	CERAMIC	1U K	10V
C357	303 409 3426	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
	303 453 8610	CERAMIC	0.1U K	16V	C3804	403 455 1012	CERAMIC	1U K	10V
	303 453 8917	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
C3571	303 396 9613	CERAMIC	1U K	25V	C3806	403 455 1012	CERAMIC	1U K	10V
	303 397 7618	CERAMIC	1U K	25V		303 433 1112	CERAMIC	1U K	10V
	403 478 5912	CERAMIC	1U K	25V	C3807	303 409 3426	CERAMIC	0.1U K	16V
C358	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V

Electrical Parts List

Key No. Part No. Description					Key No. Part No. Description				
C3808	303 409 3426	CERAMIC	0.1U K	16V	C421	303 282 5118	CERAMIC	470P K	50V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 9211	CERAMIC	470P K	50V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8719	CERAMIC	470P K	50V
C3809	303 409 3426	CERAMIC	0.1U K	16V	C422	403 455 1012	CERAMIC	1U K	10V
	303 453 8610	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
	303 453 8917	CERAMIC	0.1U K	16V	C423	303 282 5118	CERAMIC	470P K	50V
C381	303 409 3426	CERAMIC	0.1U K	16V		303 453 9211	CERAMIC	470P K	50V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8719	CERAMIC	470P K	50V
	303 453 8917	CERAMIC	0.1U K	16V	C424	403 455 1012	CERAMIC	1U K	10V
C382	303 409 3426	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
	303 453 8610	CERAMIC	0.1U K	16V		403 455 1012	CERAMIC	1U K	10V
	303 453 8917	CERAMIC	0.1U K	16V	C426	303 433 1112	CERAMIC	1U K	10V
C383	303 282 5118	CERAMIC	470P K	50V		303 282 5118	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V		303 453 9211	CERAMIC	470P K	50V
	303 453 8719	CERAMIC	470P K	50V	C427	303 453 8719	CERAMIC	470P K	50V
C384	303 282 5118	CERAMIC	470P K	50V		303 282 5118	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V		303 453 9211	CERAMIC	470P K	50V
	303 453 8719	CERAMIC	470P K	50V	C431	303 453 8719	CERAMIC	470P K	50V
C385	303 282 5118	CERAMIC	470P K	50V		303 282 5118	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V		303 453 9211	CERAMIC	470P K	50V
	303 453 8719	CERAMIC	470P K	50V	C432	303 453 8719	CERAMIC	470P K	50V
C3857	303 368 7319	CERAMIC	10U K	6.3V		303 409 3426	CERAMIC	0.1U K	16V
	303 358 3215	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C433	303 453 8917	CERAMIC	0.1U K	16V
C3858	303 453 8610	CERAMIC	0.1U K	16V		303 282 5118	CERAMIC	470P K	50V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 9211	CERAMIC	470P K	50V
	303 394 5211	CERAMIC	22U K	10V	C434	303 453 8719	CERAMIC	470P K	50V
C4001	303 382 7814	CERAMIC	2.2U K	10V		303 409 3426	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C436	303 453 8917	CERAMIC	0.1U K	16V
C4002	303 453 8917	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C437	303 453 8917	CERAMIC	0.1U K	16V
C4003	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C438	303 453 8917	CERAMIC	0.1U K	16V
C4004	303 394 5211	CERAMIC	22U K	10V		303 454 0613	CERAMIC	10000P K	50V
	303 382 7814	CERAMIC	2.2U K	10V		303 441 9810	CERAMIC	0.01U K	50V
	303 282 5118	CERAMIC	470P K	50V	C439	403 455 1012	CERAMIC	1U K	10V
C401	303 453 9211	CERAMIC	470P K	50V		303 433 1112	CERAMIC	1U K	10V
	303 453 8719	CERAMIC	470P K	50V		303 368 7319	CERAMIC	10U K	6.3V
C402	303 409 3426	CERAMIC	0.1U K	16V	C441	303 358 3215	CERAMIC	10U K	6.3V
	303 453 8610	CERAMIC	0.1U K	16V		403 455 1012	CERAMIC	1U K	10V
	303 453 8917	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
C403	303 282 5118	CERAMIC	470P K	50V	C442	303 282 5118	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V		303 453 9211	CERAMIC	470P K	50V
	303 453 8719	CERAMIC	470P K	50V		303 453 8719	CERAMIC	470P K	50V
C404	303 409 3426	CERAMIC	0.1U K	16V	C480	303 368 7319	CERAMIC	10U K	6.3V
	303 453 8610	CERAMIC	0.1U K	16V		303 358 3215	CERAMIC	10U K	6.3V
	303 453 8917	CERAMIC	0.1U K	16V	C4805	303 409 3426	CERAMIC	0.1U K	16V
C406	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C4808	303 368 7319	CERAMIC	10U K	6.3V
C407	303 282 5118	CERAMIC	470P K	50V		303 358 3215	CERAMIC	10U K	6.3V
	303 453 9211	CERAMIC	470P K	50V		303 368 7319	CERAMIC	10U K	6.3V
	303 453 8719	CERAMIC	470P K	50V	C481	303 358 3215	CERAMIC	10U K	6.3V
C411	303 409 3426	CERAMIC	0.1U K	16V		303 368 7319	CERAMIC	10U K	6.3V
	303 453 8610	CERAMIC	0.1U K	16V		303 358 3215	CERAMIC	10U K	6.3V
	303 453 8917	CERAMIC	0.1U K	16V	C482	303 368 7319	CERAMIC	10U K	6.3V
C412	303 409 3426	CERAMIC	0.1U K	16V		303 358 3215	CERAMIC	10U K	6.3V
	303 453 8610	CERAMIC	0.1U K	16V		303 368 7319	CERAMIC	10U K	6.3V
	303 453 8917	CERAMIC	0.1U K	16V	C483	303 358 3215	CERAMIC	10U K	6.3V
C413	303 282 5118	CERAMIC	470P K	50V		303 396 9613	CERAMIC	1U K	25V
	303 453 9211	CERAMIC	470P K	50V		303 397 7618	CERAMIC	1U K	25V
	303 453 8719	CERAMIC	470P K	50V	C5001	403 478 5912	CERAMIC	1U K	25V
C414	303 409 3426	CERAMIC	0.1U K	16V		303 396 9613	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V		303 397 7618	CERAMIC	1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V	C5002	403 478 5912	CERAMIC	1U K	25V
C416	303 409 3426	CERAMIC	0.1U K	16V		303 396 9613	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V		303 397 7618	CERAMIC	1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V	C5021	403 478 5912	CERAMIC	1U K	25V
C417	303 396 9514	CERAMIC	2.2U K	10V		303 409 3426	CERAMIC	0.1U K	16V
	303 382 7814	CERAMIC	2.2U K	10V		303 453 8610	CERAMIC	0.1U K	16V
					C5022	303 453 8917	CERAMIC	0.1U K	16V
						303 139 6916	CERAMIC	1P C	50V
						303 396 9613	CERAMIC	1U K	25V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
	303 397 7618	CERAMIC	1U K	25V		303 433 1112	CERAMIC	1U K	10V
	403 478 5912	CERAMIC	1U K	25V	C5059	403 455 1012	CERAMIC	1U K	10V
C5025	303 396 9613	CERAMIC	1U K	25V		303 433 1112	CERAMIC	1U K	10V
	303 397 7618	CERAMIC	1U K	25V	C5060	303 368 7319	CERAMIC	10U K	6.3V
	403 478 5912	CERAMIC	1U K	25V		303 358 3215	CERAMIC	10U K	6.3V
C5026	303 396 9613	CERAMIC	1U K	25V	C5061	403 455 1616	CERAMIC	10U K	16V
	303 397 7618	CERAMIC	1U K	25V	C5062	303 409 3426	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C5027	403 455 1012	CERAMIC	1U K	10V		303 453 8917	CERAMIC	0.1U K	16V
	303 433 1112	CERAMIC	1U K	10V	C5063	303 409 3426	CERAMIC	0.1U K	16V
C5028	403 455 1012	CERAMIC	1U K	10V		303 453 8610	CERAMIC	0.1U K	16V
	303 433 1112	CERAMIC	1U K	10V		303 453 8917	CERAMIC	0.1U K	16V
C5029	403 455 1012	CERAMIC	1U K	10V	C5066	303 409 3426	CERAMIC	0.1U K	16V
	303 433 1112	CERAMIC	1U K	10V		303 453 8610	CERAMIC	0.1U K	16V
C503	303 409 3426	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C5069	403 455 1616	CERAMIC	10U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C507	403 455 1616	CERAMIC	10U K	16V
C5030	403 455 1012	CERAMIC	1U K	10V	C5072	303 403 0312	ELECT	220U M	10V
	303 433 1112	CERAMIC	1U K	10V	C5075	403 455 1012	CERAMIC	1U K	10V
C5031	403 455 1012	CERAMIC	1U K	10V		303 433 1112	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V	C508	303 401 4312	ELECT	47U M	25V
C5032	303 139 6916	CERAMIC	1P C	50V	C509	303 396 9514	CERAMIC	2.2U K	10V
C5033	303 139 6916	CERAMIC	1P C	50V		303 382 7814	CERAMIC	2.2U K	10V
C5034	403 455 1012	CERAMIC	1U K	10V	C511	303 397 8219	CERAMIC	2.2U K	25V
	303 433 1112	CERAMIC	1U K	10V	C512	403 467 0911	CERAMIC	0.1U K	25V
C5035	403 455 1012	CERAMIC	1U K	10V	C513	403 467 0911	CERAMIC	0.1U K	25V
	303 433 1112	CERAMIC	1U K	10V	C514	403 467 0911	CERAMIC	0.1U K	25V
C5036	403 455 1012	CERAMIC	1U K	10V	C516	403 467 0911	CERAMIC	0.1U K	25V
	303 433 1112	CERAMIC	1U K	10V	C517	403 467 0911	CERAMIC	0.1U K	25V
C5037	303 139 6916	CERAMIC	1P C	50V	C519	403 467 0911	CERAMIC	0.1U K	25V
C5038	303 454 0613	CERAMIC	10000P K	50V	C521	303 396 9613	CERAMIC	1U K	25V
	303 441 9810	CERAMIC	0.01U K	50V		303 397 7618	CERAMIC	1U K	25V
C5039	303 454 0613	CERAMIC	10000P K	50V		403 478 5912	CERAMIC	1U K	25V
	303 441 9810	CERAMIC	0.01U K	50V	C523	303 342 3313	CERAMIC	0.1U K	25V
C504	303 409 3426	CERAMIC	0.1U K	16V	C524	303 342 3313	CERAMIC	0.1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C527	403 467 0911	CERAMIC	0.1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V	C528	403 467 0911	CERAMIC	0.1U K	25V
C5040	303 409 3426	CERAMIC	0.1U K	16V	C5304	303 454 0613	CERAMIC	10000P K	50V
	303 453 8610	CERAMIC	0.1U K	16V		303 441 9810	CERAMIC	0.01U K	50V
	303 453 8917	CERAMIC	0.1U K	16V	C5315	303 409 3426	CERAMIC	0.1U K	16V
C5042	403 455 1012	CERAMIC	1U K	10V		303 453 8610	CERAMIC	0.1U K	16V
	303 433 1112	CERAMIC	1U K	10V		303 453 8917	CERAMIC	0.1U K	16V
C5043	403 455 1012	CERAMIC	1U K	10V	C5316	303 442 0519	CERAMIC	0.068U K	16V
	303 433 1112	CERAMIC	1U K	10V		303 454 0415	CERAMIC	0.068U K	16V
C5044	303 409 3426	CERAMIC	0.1U K	16V	C533	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C5045	303 368 7319	CERAMIC	10U K	6.3V	C5332	303 409 3426	CERAMIC	0.1U K	16V
	303 358 3215	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
C5046	403 455 1012	CERAMIC	1U K	10V		303 453 8917	CERAMIC	0.1U K	16V
	303 433 1112	CERAMIC	1U K	10V	C534	303 409 3426	CERAMIC	0.1U K	16V
C5047	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C537	403 455 1616	CERAMIC	10U K	16V
C5048	303 409 3426	CERAMIC	0.1U K	16V	C538	303 401 4312	ELECT	47U M	25V
	303 453 8610	CERAMIC	0.1U K	16V	C539	303 396 9514	CERAMIC	2.2U K	10V
	303 453 8917	CERAMIC	0.1U K	16V		303 382 7814	CERAMIC	2.2U K	10V
C5049	303 409 3426	CERAMIC	0.1U K	16V	C541	303 397 8219	CERAMIC	2.2U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C542	403 467 0911	CERAMIC	0.1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V	C543	403 467 0911	CERAMIC	0.1U K	25V
C5050	303 409 3426	CERAMIC	0.1U K	16V	C544	403 467 0911	CERAMIC	0.1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C546	403 467 0911	CERAMIC	0.1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V	C547	403 467 0911	CERAMIC	0.1U K	25V
C5051	303 409 3426	CERAMIC	0.1U K	16V	C549	403 467 0911	CERAMIC	0.1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C551	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C5052	303 401 2219	ELECT	100U M	6.3V		303 453 8917	CERAMIC	0.1U K	16V
C5053	403 467 0911	CERAMIC	0.1U K	25V	C553	303 342 3313	CERAMIC	0.1U K	25V
C5054	303 437 4614	CERAMIC	10U K	25V	C554	303 342 3313	CERAMIC	0.1U K	25V
C5055	303 437 4614	CERAMIC	10U K	25V	C557	403 467 0911	CERAMIC	0.1U K	25V
C5058	403 455 1012	CERAMIC	1U K	10V	C558	403 467 0911	CERAMIC	0.1U K	25V

Electrical Parts List

Key No. Part No. Description					Key No. Part No. Description				
C5611	303 398 3312	ELECT	47U M	10V	C5864	403 455 1616	CERAMIC	10U K	16V
C5612	303 409 3426	CERAMIC	0.1U K	16V	C5866	303 396 9613	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V		303 397 7618	CERAMIC	1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
C5613	303 392 1215	ELECT	47U M	6.3V	C5867	303 284 4317	CERAMIC	0.022U K	50V
C5614	403 455 1012	CERAMIC	1U K	10V	C5869	303 443 9214	CERAMIC	22U M	6.3V
	303 433 1112	CERAMIC	1U K	10V		303 392 5015	CERAMIC	22U M	6.3V
C5621	303 383 5215	CERAMIC	4.7U K	6.3V	C587	403 467 0911	CERAMIC	0.1U K	25V
	303 393 2112	CERAMIC	4.7U K	6.3V	C5871	303 443 9214	CERAMIC	22U M	6.3V
C5623	303 383 5215	CERAMIC	4.7U K	6.3V		303 392 5015	CERAMIC	22U M	6.3V
	303 393 2112	CERAMIC	4.7U K	6.3V	C588	403 467 0911	CERAMIC	0.1U K	25V
C563	303 409 3426	CERAMIC	0.1U K	16V	C596	403 467 0911	CERAMIC	0.1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C597	303 437 4614	CERAMIC	10U K	25V
	303 453 8917	CERAMIC	0.1U K	16V		403 478 5714	CERAMIC	10U K	25V
C5638	403 455 1012	CERAMIC	1U K	10V	C598	403 467 0911	CERAMIC	0.1U K	25V
	303 433 1112	CERAMIC	1U K	10V	C599	303 437 4614	CERAMIC	10U K	25V
C564	303 409 3426	CERAMIC	0.1U K	16V		403 478 5714	CERAMIC	10U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C6801	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C5667	403 455 1012	CERAMIC	1U K	10V		303 453 8917	CERAMIC	0.1U K	16V
	303 433 1112	CERAMIC	1U K	10V	C6802	303 409 3426	CERAMIC	0.1U K	16V
C567	403 455 1616	CERAMIC	10U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C568	303 401 4312	ELECT	47U M	25V		303 453 8917	CERAMIC	0.1U K	16V
C569	303 396 9514	CERAMIC	2.2U K	10V	C6803	303 409 3426	CERAMIC	0.1U K	16V
	303 382 7814	CERAMIC	2.2U K	10V		303 453 8610	CERAMIC	0.1U K	16V
C5705	303 401 4312	ELECT	47U M	25V		303 453 8917	CERAMIC	0.1U K	16V
C5706	303 409 3426	CERAMIC	0.1U K	16V	C7805	303 396 9613	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V		303 397 7618	CERAMIC	1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V	C7812	303 437 4614	CERAMIC	10U K	25V
C5707	303 324 6417	CERAMIC	0.022U K	16V		403 478 5714	CERAMIC	10U K	25V
C5708	303 397 5713	ELECT	100U M	10V	C7813	303 437 4614	CERAMIC	10U K	25V
C571	303 397 8219	CERAMIC	2.2U K	25V		403 478 5714	CERAMIC	10U K	25V
C572	403 467 0911	CERAMIC	0.1U K	25V	C7814	303 397 8219	CERAMIC	2.2U K	25V
C573	403 467 0911	CERAMIC	0.1U K	25V	C7815	303 275 3015	CERAMIC	0.047U K	16V
C574	403 467 0911	CERAMIC	0.1U K	25V	C7816	303 305 8812	CERAMIC	47P J	50V
C5751	303 396 9514	CERAMIC	2.2U K	10V		303 454 1610	CERAMIC	47P J	50V
	303 382 7814	CERAMIC	2.2U K	10V		303 453 7217	CERAMIC	47P J	50V
C576	403 467 0911	CERAMIC	0.1U K	25V	C7817	303 454 0613	CERAMIC	10000P K	50V
C577	403 467 0911	CERAMIC	0.1U K	25V		303 441 9810	CERAMIC	0.01U K	50V
C579	403 467 0911	CERAMIC	0.1U K	25V	C7821	403 457 2512	CERAMIC	0.47U K	10V
C581	303 409 3426	CERAMIC	0.1U K	16V		303 376 6311	CERAMIC	0.47U K	10V
	303 453 8610	CERAMIC	0.1U K	16V	C7822	403 457 2512	CERAMIC	0.47U K	10V
	303 453 8917	CERAMIC	0.1U K	16V		303 376 6311	CERAMIC	0.47U K	10V
C5821	303 396 9613	CERAMIC	1U K	25V	C7825	303 397 8219	CERAMIC	2.2U K	25V
	303 397 7618	CERAMIC	1U K	25V	C7827	303 381 5613	ELECT	220U M	16V
	403 478 5912	CERAMIC	1U K	25V	C7831	303 275 3015	CERAMIC	0.047U K	16V
C5822	303 279 5114	CERAMIC	3300P K	50V	C7832	303 305 8812	CERAMIC	47P J	50V
	303 453 9518	CERAMIC	3300P K	50V		303 454 1610	CERAMIC	47P J	50V
C5823	303 409 3426	CERAMIC	0.1U K	16V		303 453 7217	CERAMIC	47P J	50V
	303 453 8610	CERAMIC	0.1U K	16V	C7833	303 381 5613	ELECT	220U M	16V
	303 453 8917	CERAMIC	0.1U K	16V	C7837	303 454 0613	CERAMIC	10000P K	50V
C5824	403 455 1616	CERAMIC	10U K	16V		303 441 9810	CERAMIC	0.01U K	50V
C5825	403 455 1616	CERAMIC	10U K	16V	C7839	303 394 5815	CERAMIC	4.7U K	16V
C5827	303 443 9214	CERAMIC	22U M	6.3V	C7841	303 437 4614	CERAMIC	10U K	25V
	303 392 5015	CERAMIC	22U M	6.3V		403 478 5714	CERAMIC	10U K	25V
C5828	303 443 9214	CERAMIC	22U M	6.3V	C7842	403 467 0911	CERAMIC	0.1U K	25V
	303 392 5015	CERAMIC	22U M	6.3V	C7843	303 376 3112	ELECT	100U M	25V
C583	303 342 3313	CERAMIC	0.1U K	25V	C7844	403 467 0911	CERAMIC	0.1U K	25V
C584	303 342 3313	CERAMIC	0.1U K	25V	C8001	303 368 7319	CERAMIC	10U K	6.3V
C5841	403 455 1012	CERAMIC	1U K	10V		303 358 3215	CERAMIC	10U K	6.3V
	303 433 1112	CERAMIC	1U K	10V	C8002	303 409 3426	CERAMIC	0.1U K	16V
C5843	303 368 7319	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 358 3215	CERAMIC	10U K	6.3V		303 453 8917	CERAMIC	0.1U K	16V
C5844	303 409 3426	CERAMIC	0.1U K	16V	C8003	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C5860	303 342 3313	CERAMIC	0.1U K	25V	C8004	303 409 3426	CERAMIC	0.1U K	16V
C5862	403 455 1616	CERAMIC	10U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C5863	303 409 3426	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C8006	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C8007	303 453 8917	CERAMIC	0.1U K	16V	C8081	303 368 7319	CERAMIC	10U K	6.3V
	303 409 3426	CERAMIC	0.1U K	16V		303 358 3215	CERAMIC	10U K	6.3V
	303 453 8610	CERAMIC	0.1U K	16V	C8093	303 379 0217	POS-SOLID	68U M	6.3V
C8008	303 453 8917	CERAMIC	0.1U K	16V	C8096	303 368 7319	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V		303 358 3215	CERAMIC	10U K	6.3V
	303 358 3215	CERAMIC	10U K	6.3V	C8097	303 383 5215	CERAMIC	4.7U K	6.3V
C8009	303 368 7319	CERAMIC	10U K	6.3V	C8098	303 409 3426	CERAMIC	0.1U K	16V
	303 358 3215	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C801	303 453 8610	CERAMIC	0.1U K	16V	C8301	303 368 7319	CERAMIC	10U K	6.3V
	303 453 8917	CERAMIC	0.1U K	16V		303 358 3215	CERAMIC	10U K	6.3V
	303 409 3426	CERAMIC	0.1U K	16V	C8302	303 368 7319	CERAMIC	10U K	6.3V
C8011	303 453 8610	CERAMIC	0.1U K	16V		303 358 3215	CERAMIC	10U K	6.3V
	303 453 8917	CERAMIC	0.1U K	16V	C8303	303 409 3426	CERAMIC	0.1U K	16V
	303 368 7319	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
C8012	303 358 3215	CERAMIC	10U K	6.3V		303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C841	403 455 1012	CERAMIC	1U K	10V
	303 453 8610	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
C8013	303 453 8917	CERAMIC	0.1U K	16V	C842	303 392 1215	ELECT	47U M	6.3V
	303 139 7715	CERAMIC	7P D	50V	C843	303 454 0613	CERAMIC	10000P K	50V
	303 157 1610	CERAMIC	6P D	50V		303 441 9810	CERAMIC	0.01U K	50V
C8016	303 409 3426	CERAMIC	0.1U K	16V	C844	303 454 1214	CERAMIC	1000P K	50V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8511	CERAMIC	1000P K	50V
	303 453 8917	CERAMIC	0.1U K	16V	C8801	303 409 3426	CERAMIC	0.1U K	16V
C8017	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C8802	303 409 3426	CERAMIC	0.1U K	16V
C8018	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C8803	303 409 3426	CERAMIC	0.1U K	16V
C8019	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C8804	303 409 3426	CERAMIC	0.1U K	16V
C8021	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C8805	303 409 3426	CERAMIC	0.1U K	16V
C8022	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C8806	303 409 3426	CERAMIC	0.1U K	16V
C8023	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C8807	303 409 3426	CERAMIC	0.1U K	16V
C8024	303 368 7319	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 358 3215	CERAMIC	10U K	6.3V		303 453 8917	CERAMIC	0.1U K	16V
	303 368 7319	CERAMIC	10U K	6.3V	C8808	303 409 3426	CERAMIC	0.1U K	16V
C8026	303 358 3215	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 368 7319	CERAMIC	10U K	6.3V		303 453 8917	CERAMIC	0.1U K	16V
	303 358 3215	CERAMIC	10U K	6.3V	C8809	303 409 3426	CERAMIC	0.1U K	16V
C8027	303 368 7319	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 358 3215	CERAMIC	10U K	6.3V		303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C8811	303 409 3426	CERAMIC	0.1U K	16V
C8028	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C8812	303 409 3426	CERAMIC	0.1U K	16V
C8029	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C8813	303 409 3426	CERAMIC	0.1U K	16V
C8031	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C8815	303 409 3426	CERAMIC	0.1U K	16V
C8032	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C8816	303 409 3426	CERAMIC	0.1U K	16V
C8033	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C8817	303 409 3426	CERAMIC	0.1U K	16V
C8034	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C8818	303 409 3426	CERAMIC	0.1U K	16V
C8036	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C8037	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C8038	303 368 7319	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 358 3215	CERAMIC	10U K	6.3V		303 453 8917	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C8823	303 409 3426	CERAMIC	0.1U K	16V		403 455 5713	CERAMIC	15P J	50V
	303 453 8610	CERAMIC	0.1U K	16V	C9022	303 305 8515	CERAMIC	15P J	50V
	303 453 8917	CERAMIC	0.1U K	16V		403 455 5218	CERAMIC	15P J	50V
C8830	303 409 3426	CERAMIC	0.1U K	16V		403 455 5713	CERAMIC	15P J	50V
	303 453 8610	CERAMIC	0.1U K	16V	C9306	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C8833	303 391 5412	ELECT	22U M	6.3V		303 453 8917	CERAMIC	0.1U K	16V
C8837	303 409 3426	CERAMIC	0.1U K	16V	C9631	403 455 1012	CERAMIC	1U K	10V
	303 453 8610	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
	303 453 8917	CERAMIC	0.1U K	16V	C9878	303 324 6417	CERAMIC	0.022U K	16V
C8838	303 409 3426	CERAMIC	0.1U K	16V	C9880	303 305 8812	CERAMIC	47P J	50V
	303 453 8610	CERAMIC	0.1U K	16V		303 454 1610	CERAMIC	47P J	50V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 7217	CERAMIC	47P J	50V
C8839	303 409 3426	CERAMIC	0.1U K	16V	C9882	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C8841	303 294 6110	CERAMIC	100P J	50V	C9883	303 392 1215	ELECT	47U M	6.3V
	303 454 0910	CERAMIC	100P J	50V	C9884	303 409 3426	CERAMIC	0.1U K	16V
	303 453 6319	CERAMIC	100P J	50V		303 453 8610	CERAMIC	0.1U K	16V
C8842	303 294 6110	CERAMIC	100P J	50V		303 453 8917	CERAMIC	0.1U K	16V
	303 454 0910	CERAMIC	100P J	50V	C9886	303 409 3426	CERAMIC	0.1U K	16V
	303 453 6319	CERAMIC	100P J	50V		303 453 8610	CERAMIC	0.1U K	16V
C8845	303 391 5412	ELECT	22U M	6.3V		303 453 8917	CERAMIC	0.1U K	16V
C8846	303 391 5412	ELECT	22U M	6.3V	C9887	303 409 3426	CERAMIC	0.1U K	16V
C8847	303 396 9613	CERAMIC	1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
	303 397 7618	CERAMIC	1U K	25V		303 453 8917	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V	C9889	303 409 3426	CERAMIC	0.1U K	16V
C8848	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	RESISTOR				
C8849	303 391 5412	ELECT	22U M	6.3V	R001	301 224 9316	MT-GLAZE	1K JA	1/16W
C8851	303 391 5412	ELECT	22U M	6.3V	R002	301 225 0510	MT-GLAZE	33K JA	1/16W
C8855	303 453 7118	CERAMIC	12P J	50V	R003	301 265 2611	MT-GLAZE	5.1K FA	1/10W
	303 453 9112	CERAMIC	12P J	50V	R004	301 264 2711	MT-GLAZE	120 FA	1/10W
	303 276 2918	CERAMIC	12P J	50V	R008	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
C8856	303 453 7118	CERAMIC	12P J	50V	R009	301 264 9314	MT-GLAZE	3.3K FA	1/10W
	303 453 9112	CERAMIC	12P J	50V	R010	301 229 3913	MT-GLAZE	180 JA	1/16W
	303 276 2918	CERAMIC	12P J	50V	R011	301 256 0312	MT-GLAZE	820 JA	1/10W
C8857	303 409 3426	CERAMIC	0.1U K	16V	R012	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R013	301 150 5819	MT-GLAZE	100K JA	1/10W
	303 453 8917	CERAMIC	0.1U K	16V	R014	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C8858	303 409 3426	CERAMIC	0.1U K	16V	R016	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
	303 453 8610	CERAMIC	0.1U K	16V	R1001	301 260 4115	MT-GLAZE	75 JA	1/3W
	303 453 8917	CERAMIC	0.1U K	16V	R1002	301 225 1210	MT-GLAZE	4.7K JA	1/16W
C8860	303 215 2214	CERAMIC	0.01U K	50V	R1003	301 225 8110	MT-GLAZE	10 JA	1/16W
C9007	303 409 3426	CERAMIC	0.1U K	16V	R1004	301 225 1210	MT-GLAZE	4.7K JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1012	301 224 8814	MT-GLAZE	100 JA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1021	301 260 4115	MT-GLAZE	75 JA	1/3W
C9011	303 392 1215	ELECT	47U M	6.3V	R1022	301 224 8814	MT-GLAZE	100 JA	1/16W
C9012	303 409 3426	CERAMIC	0.1U K	16V	R1025	301 260 4214	MT-GLAZE	82 JA	1/3W
	303 453 8610	CERAMIC	0.1U K	16V	R1026	301 260 4214	MT-GLAZE	82 JA	1/3W
	303 453 8917	CERAMIC	0.1U K	16V	R1028	301 260 4214	MT-GLAZE	82 JA	1/3W
C9013	303 409 3426	CERAMIC	0.1U K	16V	R1029	301 225 2019	MT-GLAZE	680 JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1031	301 225 1418	MT-GLAZE	47K JA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1035	301 225 1814	MT-GLAZE	47 JA	1/16W
C9014	303 409 3426	CERAMIC	0.1U K	16V	R1036	301 225 1814	MT-GLAZE	47 JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1037	301 225 1814	MT-GLAZE	47 JA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1038	301 224 8814	MT-GLAZE	100 JA	1/16W
C9015	303 409 3426	CERAMIC	0.1U K	16V	R1039	301 225 1814	MT-GLAZE	47 JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1040	301 225 3818	MT-GLAZE	1.5K JA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1041	301 225 1418	MT-GLAZE	47K JA	1/16W
C9016	303 409 3426	CERAMIC	0.1U K	16V	R1042	301 224 9316	MT-GLAZE	1K JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1043	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
	303 453 8917	CERAMIC	0.1U K	16V	R1044	301 224 9316	MT-GLAZE	1K JA	1/16W
C9017	303 392 1215	ELECT	47U M	6.3V	R1046	301 224 9019	MT-GLAZE	10K JA	1/16W
C9019	303 409 3426	CERAMIC	0.1U K	16V	R1048	301 224 9019	MT-GLAZE	10K JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1049	301 224 9316	MT-GLAZE	1K JA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1050	301 225 3818	MT-GLAZE	1.5K JA	1/16W
C9020	303 392 1215	ELECT	47U M	6.3V	R1051	301 225 0718	MT-GLAZE	56K JA	1/16W
C9021	303 305 8515	CERAMIC	15P J	50V	R1052	301 263 7420	MT-GLAZE	75 JA	1/16W
	403 455 5218	CERAMIC	15P J	50V					

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R1053	301 294 2910	MT-GLAZE	560 FA 1/16W	R310	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1054	301 224 9316	MT-GLAZE	1K JA 1/16W	R311	301 224 9316	MT-GLAZE	1K JA 1/16W
R1060	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R315	301 225 1814	MT-GLAZE	47 JA 1/16W
R1062	301 263 7420	MT-GLAZE	75 JA 1/16W	R317	301 225 1814	MT-GLAZE	47 JA 1/16W
R1063	301 225 2019	MT-GLAZE	680 JA 1/16W	R319	301 224 9019	MT-GLAZE	10K JA 1/16W
R1064	301 225 2019	MT-GLAZE	680 JA 1/16W	R320	301 225 1814	MT-GLAZE	47 JA 1/16W
R1065	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R321	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R1066	301 224 9316	MT-GLAZE	1K JA 1/16W	R322	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R1069	301 224 9316	MT-GLAZE	1K JA 1/16W	R323	301 225 1814	MT-GLAZE	47 JA 1/16W
R1070	301 263 7420	MT-GLAZE	75 JA 1/16W	R324	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1071	301 224 8814	MT-GLAZE	100 JA 1/16W	R325	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1072	301 263 7420	MT-GLAZE	75 JA 1/16W	R326	301 225 8011	MT-GLAZE	330 JA 1/16W
R1075	301 263 7420	MT-GLAZE	75 JA 1/16W	R327	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1077	301 263 7420	MT-GLAZE	75 JA 1/16W	R328	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1078	301 263 7420	MT-GLAZE	75 JA 1/16W	R339	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R1079	301 263 7420	MT-GLAZE	75 JA 1/16W	R341	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R1080	301 263 7420	MT-GLAZE	75 JA 1/16W	R342	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R1081	301 225 1418	MT-GLAZE	47K JA 1/16W	R343	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R1083	301 225 1814	MT-GLAZE	47 JA 1/16W	R344	301 225 1814	MT-GLAZE	47 JA 1/16W
R1084	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R345	301 225 1814	MT-GLAZE	47 JA 1/16W
R1085	301 225 1814	MT-GLAZE	47 JA 1/16W	R346	301 225 1814	MT-GLAZE	47 JA 1/16W
R1088	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R348	301 224 8814	MT-GLAZE	100 JA 1/16W
R1089	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R349	301 225 1814	MT-GLAZE	47 JA 1/16W
R1090	301 225 0619	MT-GLAZE	5.6K JA 1/16W	R350	301 263 7420	MT-GLAZE	75 JA 1/16W
R1091	301 225 1418	MT-GLAZE	47K JA 1/16W	R3502	301 225 1418	MT-GLAZE	47K JA 1/16W
R1094	301 224 9316	MT-GLAZE	1K JA 1/16W	R3504	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1096	301 224 9019	MT-GLAZE	10K JA 1/16W	R3505	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1099	301 225 8615	MT-GLAZE	560K JA 1/16W	R3506	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1101	301 224 8814	MT-GLAZE	100 JA 1/16W	R3507	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1105	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R3509	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1111	301 260 4115	MT-GLAZE	75 JA 1/3W	R351	301 224 8814	MT-GLAZE	100 JA 1/16W
R1134	301 225 1814	MT-GLAZE	47 JA 1/16W	R3511	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1150	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	R352	301 224 8814	MT-GLAZE	100 JA 1/16W
R1331	301 224 9415	MT-GLAZE	1M JA 1/16W	R353	301 263 7420	MT-GLAZE	75 JA 1/16W
R1871	301 224 9019	MT-GLAZE	10K JA 1/16W	R3532	301 225 1418	MT-GLAZE	47K JA 1/16W
R1872	301 224 9019	MT-GLAZE	10K JA 1/16W	R354	301 224 8814	MT-GLAZE	100 JA 1/16W
R1890	301 225 8110	MT-GLAZE	10 JA 1/16W	R355	301 224 8814	MT-GLAZE	100 JA 1/16W
R2000	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	R3562	301 225 1418	MT-GLAZE	47K JA 1/16W
R2006	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R3580	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R2011	301 037 5116	MT-GLAZE	10 JA 1/10W	R3583	301 224 9019	MT-GLAZE	10K JA 1/16W
R2016	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R3587	301 224 9316	MT-GLAZE	1K JA 1/16W
R2026	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R3588	301 224 9019	MT-GLAZE	10K JA 1/16W
R2036	301 224 8814	MT-GLAZE	100 JA 1/16W	R359	301 225 0015	MT-GLAZE	270 JA 1/16W
R2037	301 224 8814	MT-GLAZE	100 JA 1/16W	R360	301 225 0015	MT-GLAZE	270 JA 1/16W
R2038	301 224 8814	MT-GLAZE	100 JA 1/16W	R3602	301 225 2118	MT-GLAZE	12K JA 1/16W
R2043	301 225 8110	MT-GLAZE	10 JA 1/16W	R3605	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2053	301 225 8110	MT-GLAZE	10 JA 1/16W	R3606	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2892	301 224 8814	MT-GLAZE	100 JA 1/16W	R361	301 256 1517	MT-GLAZE	13K JA 1/10W
R300	301 224 9019	MT-GLAZE	10K JA 1/16W	R3620	301 190 1710	MT-GLAZE	0.000 ZA 1W
R3001	301 224 8913	MT-GLAZE	100K JA 1/16W	R3621	301 224 9019	MT-GLAZE	10K JA 1/16W
R3002	301 224 8814	MT-GLAZE	100 JA 1/16W	R3622	301 224 9019	MT-GLAZE	10K JA 1/16W
R3011	301 224 8913	MT-GLAZE	100K JA 1/16W	R3623	301 224 9019	MT-GLAZE	10K JA 1/16W
R3012	301 224 8814	MT-GLAZE	100 JA 1/16W	R3626	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R302	301 227 5612	MT-GLAZE	8.2K JA 1/16W	R3627	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R3021	301 224 8913	MT-GLAZE	100K JA 1/16W	R3628	301 224 9019	MT-GLAZE	10K JA 1/16W
R303	301 224 9316	MT-GLAZE	1K JA 1/16W	R363	301 224 9316	MT-GLAZE	1K JA 1/16W
R3031	301 224 8913	MT-GLAZE	100K JA 1/16W	R3635	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3036	301 224 8814	MT-GLAZE	100 JA 1/16W	R3636	301 225 2118	MT-GLAZE	12K JA 1/16W
R304	301 224 9316	MT-GLAZE	1K JA 1/16W	R3637	301 224 9019	MT-GLAZE	10K JA 1/16W
R3051	301 224 8913	MT-GLAZE	100K JA 1/16W	R3638	301 224 9019	MT-GLAZE	10K JA 1/16W
R3053	301 224 8913	MT-GLAZE	100K JA 1/16W	R364	301 224 9316	MT-GLAZE	1K JA 1/16W
R3054	301 224 8913	MT-GLAZE	100K JA 1/16W	R366	301 224 9316	MT-GLAZE	1K JA 1/16W
R3056	301 224 9415	MT-GLAZE	1M JA 1/16W	R367	301 225 1814	MT-GLAZE	47 JA 1/16W
R3057	301 287 2227	MT-GLAZE	22K FA 1/16W	R368	301 225 1814	MT-GLAZE	47 JA 1/16W
R306	401 342 7314	MT-GLAZE	23.2K FA 1/16W	R371	301 225 8110	MT-GLAZE	10 JA 1/16W
R3061	301 224 8814	MT-GLAZE	100 JA 1/16W	R372	301 225 8110	MT-GLAZE	10 JA 1/16W
R3063	301 224 8913	MT-GLAZE	100K JA 1/16W	R373	301 225 8110	MT-GLAZE	10 JA 1/16W
R3064	301 224 8814	MT-GLAZE	100 JA 1/16W	R376	301 225 8110	MT-GLAZE	10 JA 1/16W
R307	301 224 9712	MT-GLAZE	22 JA 1/16W	R378	301 224 9019	MT-GLAZE	10K JA 1/16W
R308	301 224 9712	MT-GLAZE	22 JA 1/16W	R3801	301 225 8110	MT-GLAZE	10 JA 1/16W
R309	301 224 9316	MT-GLAZE	1K JA 1/16W	R3803	301 225 8110	MT-GLAZE	10 JA 1/16W

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R3804	301 225 8110	MT-GLAZE	10 JA 1/16W	R5028	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3805	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5029	301 294 4112	MT-GLAZE	30K FA 1/16W
R3809	301 224 9316	MT-GLAZE	1K JA 1/16W	R503	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3812	301 225 8110	MT-GLAZE	10 JA 1/16W	R5030	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3816	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5033	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R382	301 263 7420	MT-GLAZE	75 JA 1/16W	R5034	301 224 9316	MT-GLAZE	1K JA 1/16W
R3856	301 224 9019	MT-GLAZE	10K JA 1/16W	R5035	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3857	301 224 9019	MT-GLAZE	10K JA 1/16W	R5036	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R387	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	R5037	301 224 9316	MT-GLAZE	1K JA 1/16W
R394	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	R5039	301 224 8814	MT-GLAZE	100 JA 1/16W
R395	301 225 0817	MT-GLAZE	68K JA 1/16W	R5040	301 224 8814	MT-GLAZE	100 JA 1/16W
R396	301 224 9019	MT-GLAZE	10K JA 1/16W	R5041	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R4001	301 224 8814	MT-GLAZE	100 JA 1/16W	R5042	301 224 9019	MT-GLAZE	10K JA 1/16W
R401	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5043	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R4014	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5046	301 224 9019	MT-GLAZE	10K JA 1/16W
R4016	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R5047	301 224 9613	MT-GLAZE	2.7K JA 1/16W
R4017	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R5048	301 224 9316	MT-GLAZE	1K JA 1/16W
R402	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5049	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R4023	301 224 9019	MT-GLAZE	10K JA 1/16W	R505	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4024	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5050	301 294 3511	MT-GLAZE	27K FA 1/16W
R403	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5055	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R404	301 224 9019	MT-GLAZE	10K JA 1/16W	R5060	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R4072	301 224 8814	MT-GLAZE	100 JA 1/16W	R5061	301 224 8814	MT-GLAZE	100 JA 1/16W
R4077	301 224 8814	MT-GLAZE	100 JA 1/16W	R5062	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R409	301 224 8814	MT-GLAZE	100 JA 1/16W	R5063	301 224 9316	MT-GLAZE	1K JA 1/16W
R411	301 224 8814	MT-GLAZE	100 JA 1/16W	R5064	301 224 8814	MT-GLAZE	100 JA 1/16W
R412	301 225 1814	MT-GLAZE	47 JA 1/16W	R5065	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R414	301 225 1814	MT-GLAZE	47 JA 1/16W	R5066	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R415	301 224 8814	MT-GLAZE	100 JA 1/16W	R5067	301 224 9316	MT-GLAZE	1K JA 1/16W
R416	301 225 1814	MT-GLAZE	47 JA 1/16W	R5069	301 150 6014	MT-GLAZE	0.000 ZA 1/10W
R418	301 225 1814	MT-GLAZE	47 JA 1/16W	R507	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R419	301 225 1814	MT-GLAZE	47 JA 1/16W	R5070	301 225 8011	MT-GLAZE	330 JA 1/16W
R422	301 225 1814	MT-GLAZE	47 JA 1/16W	R5073	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R423	301 225 1814	MT-GLAZE	47 JA 1/16W	R5075	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R424	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5078	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R425	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R508	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R472	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R509	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4830	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R511	301 224 8814	MT-GLAZE	100 JA 1/16W
R4833	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R512	301 224 8814	MT-GLAZE	100 JA 1/16W
R4834	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R513	301 224 8814	MT-GLAZE	100 JA 1/16W
R4841	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5213	301 224 8814	MT-GLAZE	100 JA 1/16W
R4842	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5215	301 224 8814	MT-GLAZE	100 JA 1/16W
R4861	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R5220	301 224 8814	MT-GLAZE	100 JA 1/16W
R4862	301 225 1616	MT-GLAZE	390 JA 1/16W	R5223	301 224 8814	MT-GLAZE	100 JA 1/16W
R4863	301 225 1616	MT-GLAZE	390 JA 1/16W	R530	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4864	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5303	301 225 1814	MT-GLAZE	47 JA 1/16W
R4868	301 224 8814	MT-GLAZE	100 JA 1/16W	R531	301 224 8814	MT-GLAZE	100 JA 1/16W
R5001	301 287 2227	MT-GLAZE	22K FA 1/16W	R5317	301 225 1814	MT-GLAZE	47 JA 1/16W
R5002	301 287 2227	MT-GLAZE	22K FA 1/16W	R541	301 224 8814	MT-GLAZE	100 JA 1/16W
R5003	301 287 2227	MT-GLAZE	22K FA 1/16W	R542	301 224 8814	MT-GLAZE	100 JA 1/16W
R5004	301 287 2227	MT-GLAZE	22K FA 1/16W	R543	301 224 8814	MT-GLAZE	100 JA 1/16W
R5005	301 299 4810	MT-GLAZE	2.7K FA 1/16W	R546	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5006	301 294 2811	MT-GLAZE	2.2K FA 1/16W	R560	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5007	301 225 2019	MT-GLAZE	680 JA 1/16W	R5606	301 162 2219	MT-GLAZE	10 JA 1/10W
R501	301 224 8814	MT-GLAZE	100 JA 1/16W	R5607	301 224 9316	MT-GLAZE	1K JA 1/16W
R5010	301 299 4810	MT-GLAZE	2.7K FA 1/16W	R561	301 224 8814	MT-GLAZE	100 JA 1/16W
R5011	301 294 2811	MT-GLAZE	2.2K FA 1/16W	R5611	301 224 8814	MT-GLAZE	100 JA 1/16W
R5012	301 225 2019	MT-GLAZE	680 JA 1/16W	R5613	301 224 9019	MT-GLAZE	10K JA 1/16W
R5013	301 224 9910	MT-GLAZE	22K JA 1/16W	R5614	301 224 9316	MT-GLAZE	1K JA 1/16W
R5014	301 224 9910	MT-GLAZE	22K JA 1/16W	R5615	301 224 9019	MT-GLAZE	10K JA 1/16W
R5017	301 224 9316	MT-GLAZE	1K JA 1/16W	R5616	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R5018	301 224 9316	MT-GLAZE	1K JA 1/16W	R5617	301 225 3818	MT-GLAZE	1.5K JA 1/16W
R5019	301 225 8110	MT-GLAZE	10 JA 1/16W	R5627	301 190 1710	MT-GLAZE	0.000 ZA 1W
R5020	301 162 2219	MT-GLAZE	10 JA 1/10W	R5637	301 225 1517	MT-GLAZE	3.9K JA 1/16W
R5021	301 150 5819	MT-GLAZE	100K JA 1/10W	R5638	301 225 0619	MT-GLAZE	5.6K JA 1/16W
R5022	301 225 8011	MT-GLAZE	330 JA 1/16W	R5701	301 287 2227	MT-GLAZE	22K FA 1/16W
R5023	301 150 5819	MT-GLAZE	100K JA 1/10W	R5702	301 225 0718	MT-GLAZE	56K JA 1/16W
R5024	301 294 4112	MT-GLAZE	30K FA 1/16W	R5703	301 224 9019	MT-GLAZE	10K JA 1/16W
R5025	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5705	301 224 9019	MT-GLAZE	10K JA 1/16W
R5026	301 294 3313	MT-GLAZE	15K FA 1/16W	R5706	301 224 9019	MT-GLAZE	10K JA 1/16W
R5027	301 294 3313	MT-GLAZE	15K FA 1/16W	R5708	403 455 1012	CERAMIC	1U K 10V

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R5709	301 224 9019	MT-GLAZE	10K JA 1/16W	R7813	301 224 8913	MT-GLAZE	100K JA 1/16W
R571	301 224 8814	MT-GLAZE	100 JA 1/16W	R7816	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R5712	301 253 3712	MT-GLAZE	0.000 ZA 1/4W	R7817	301 224 9019	MT-GLAZE	10K JA 1/16W
R5716	301 253 3712	MT-GLAZE	0.000 ZA 1/4W	R7818	301 299 4810	MT-GLAZE	2.7K FA 1/16W
R5717	301 253 3712	MT-GLAZE	0.000 ZA 1/4W	R7819	301 264 6115	MT-GLAZE	20K FA 1/10W
R572	301 224 8814	MT-GLAZE	100 JA 1/16W	R7821	301 294 2910	MT-GLAZE	560 FA 1/16W
R573	301 224 8814	MT-GLAZE	100 JA 1/16W	R7823	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5741	301 224 9019	MT-GLAZE	10K JA 1/16W	R7824	301 301 8010	MT-GLAZE	1.5K FA 1/16W
R5742	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R7826	301 225 8110	MT-GLAZE	10 JA 1/16W
R5744	301 224 9019	MT-GLAZE	10K JA 1/16W	R7827	301 225 8110	MT-GLAZE	10 JA 1/16W
R5745	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R7828	301 224 9019	MT-GLAZE	10K JA 1/16W
R5747	301 224 9019	MT-GLAZE	10K JA 1/16W	R7829	301 224 9316	MT-GLAZE	1K JA 1/16W
R5749	301 224 8814	MT-GLAZE	100 JA 1/16W	R7830	301 224 9019	MT-GLAZE	10K JA 1/16W
R5755	301 224 9019	MT-GLAZE	10K JA 1/16W	R7831	301 224 9316	MT-GLAZE	1K JA 1/16W
R5757	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R7832	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R5758	301 224 9019	MT-GLAZE	10K JA 1/16W	R7833	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R5759	301 224 9316	MT-GLAZE	1K JA 1/16W	R7836	301 225 1517	MT-GLAZE	3.9K JA 1/16W
R5803	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R7839	301 225 1517	MT-GLAZE	3.9K JA 1/16W
R5804	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R7840	301 225 1517	MT-GLAZE	3.9K JA 1/16W
R5822	301 224 8913	MT-GLAZE	100K JA 1/16W	R7841	301 336 8818	MT-GLAZE	6.8K FA 1/16W
R5823	301 265 4516	MT-GLAZE	68K FA 1/10W	R7842	301 294 2811	MT-GLAZE	2.2K FA 1/16W
R5824	401 343 0512	MT-GLAZE	7.5K FA 1/16W	R7843	301 225 1616	MT-GLAZE	390 JA 1/16W
R5825	301 287 2227	MT-GLAZE	22K FA 1/16W	R7844	301 294 3115	MT-GLAZE	1K FA 1/16W
R5841	301 294 3115	MT-GLAZE	1K FA 1/16W	R7845	301 224 9316	MT-GLAZE	1K JA 1/16W
R5842	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R7846	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R5860	301 224 8913	MT-GLAZE	100K JA 1/16W	R7847	301 294 4112	MT-GLAZE	30K FA 1/16W
R5863	301 294 3511	MT-GLAZE	27K FA 1/16W	R7848	301 224 9019	MT-GLAZE	10K JA 1/16W
R5864	301 301 8119	MT-GLAZE	3.9K FA 1/16W	R7851	301 162 3612	MT-GLAZE	470 JA 1/10W
R5865	301 287 2227	MT-GLAZE	22K FA 1/16W	R7853	301 224 9316	MT-GLAZE	1K JA 1/16W
R595	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R7855	301 224 9019	MT-GLAZE	10K JA 1/16W
R596	301 294 3016	MT-GLAZE	10K FA 1/16W	R7863	301 224 9316	MT-GLAZE	1K JA 1/16W
R597	301 294 4419	MT-GLAZE	1.8K FA 1/16W	R7865	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R598	301 301 0410	MT-GLAZE	240 FA 1/16W	R7871	301 301 8010	MT-GLAZE	1.5K FA 1/16W
R599	301 224 9316	MT-GLAZE	1K JA 1/16W	R7872	301 294 2910	MT-GLAZE	560 FA 1/16W
R6801	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R7873	301 264 6115	MT-GLAZE	20K FA 1/10W
R6803	301 224 9019	MT-GLAZE	10K JA 1/16W	R7874	301 299 4810	MT-GLAZE	2.7K FA 1/16W
R6804	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R7878	301 224 9019	MT-GLAZE	10K JA 1/16W
R6806	301 224 9217	MT-GLAZE	15K JA 1/16W	R7879	301 224 9316	MT-GLAZE	1K JA 1/16W
R6807	301 234 9917	MT-GLAZE	6.8K JA 1/16W	R7881	301 224 9316	MT-GLAZE	1K JA 1/16W
R6808	301 225 1517	MT-GLAZE	3.9K JA 1/16W	R7882	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R6809	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R7883	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R6811	301 225 1517	MT-GLAZE	3.9K JA 1/16W	R8001	301 264 5316	MT-GLAZE	2.2 JA 1/10W
R6812	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R8002	301 264 5316	MT-GLAZE	2.2 JA 1/10W
R6813	301 224 9019	MT-GLAZE	10K JA 1/16W	R8003	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R6822	301 224 9316	MT-GLAZE	1K JA 1/16W	R8004	301 224 9415	MT-GLAZE	1M JA 1/16W
R6823	301 224 9019	MT-GLAZE	10K JA 1/16W	R8008	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R6842	301 224 8814	MT-GLAZE	100 JA 1/16W	R8009	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R6845	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R801	301 224 9019	MT-GLAZE	10K JA 1/16W
R6848	301 225 0015	MT-GLAZE	270 JA 1/16W	R8010	301 224 9019	MT-GLAZE	10K JA 1/16W
R6851	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R8014	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R6858	301 263 7420	MT-GLAZE	75 JA 1/16W	R8018	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R6867	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	R8020	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R6873	301 229 3913	MT-GLAZE	180 JA 1/16W	R8022	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R6874	301 224 9019	MT-GLAZE	10K JA 1/16W	R8023	301 264 5316	MT-GLAZE	2.2 JA 1/10W
R6876	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R8029	301 225 0312	MT-GLAZE	33 JA 1/16W
R6877	301 224 9019	MT-GLAZE	10K JA 1/16W	R8031	301 225 0312	MT-GLAZE	33 JA 1/16W
R6879	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R8032	301 225 0312	MT-GLAZE	33 JA 1/16W
R6881	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R8033	301 225 0312	MT-GLAZE	33 JA 1/16W
R6882	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R8034	301 225 0312	MT-GLAZE	33 JA 1/16W
R6883	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R804	301 224 9019	MT-GLAZE	10K JA 1/16W
R7801	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R8043	301 225 1418	MT-GLAZE	47K JA 1/16W
R7802	301 104 6015	MT-GLAZE	100 JA 1W	R8044	301 225 1418	MT-GLAZE	47K JA 1/16W
R7803	301 224 8913	MT-GLAZE	100K JA 1/16W	R8045	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7804	301 102 7519	MT-GLAZE	22 JA 1W	R8046	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7805	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R8047	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7806	301 224 9019	MT-GLAZE	10K JA 1/16W	R8048	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7807	301 224 9019	MT-GLAZE	10K JA 1/16W	R8051	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7808	301 224 9019	MT-GLAZE	10K JA 1/16W	R8052	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7809	301 224 9019	MT-GLAZE	10K JA 1/16W	R8053	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7810	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R8054	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7811	301 224 9019	MT-GLAZE	10K JA 1/16W	R8056	301 225 1418	MT-GLAZE	47K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R8057	301 225 1418	MT-GLAZE	47K JA 1/16W	R9318	301 225 8110	MT-GLAZE	10 JA 1/16W
R806	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R9319	301 225 8110	MT-GLAZE	10 JA 1/16W
R807	301 224 9019	MT-GLAZE	10K JA 1/16W	R9330	301 224 9019	MT-GLAZE	10K JA 1/16W
R808	301 224 9019	MT-GLAZE	10K JA 1/16W	R9611	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R8084	301 224 9316	MT-GLAZE	1K JA 1/16W	R9612	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R8086	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	R9613	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R8088	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	R9631	301 224 9316	MT-GLAZE	1K JA 1/16W
R809	301 294 4419	MT-GLAZE	1.8K FA 1/16W	R9632	301 224 9019	MT-GLAZE	10K JA 1/16W
R8091	301 224 9019	MT-GLAZE	10K JA 1/16W	R9633	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R812	301 224 9316	MT-GLAZE	1K JA 1/16W	R9634	301 225 3818	MT-GLAZE	1.5K JA 1/16W
R813	301 224 9316	MT-GLAZE	1K JA 1/16W	R9755	301 224 9316	MT-GLAZE	1K JA 1/16W
R8311	301 224 9712	MT-GLAZE	22 JA 1/16W	R9869	301 225 8110	MT-GLAZE	10 JA 1/16W
R8313	301 224 9712	MT-GLAZE	22 JA 1/16W	R9873	301 255 7312	MT-GLAZE	510K JA 1/10W
R851	301 224 9316	MT-GLAZE	1K JA 1/16W	R9876	301 225 8110	MT-GLAZE	10 JA 1/16W
R852	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R9878	301 225 3818	MT-GLAZE	1.5K JA 1/16W
R8801	301 225 1418	MT-GLAZE	47K JA 1/16W	R9884	301 225 8110	MT-GLAZE	10 JA 1/16W
R8802	301 225 1418	MT-GLAZE	47K JA 1/16W	R9888	301 224 9316	MT-GLAZE	1K JA 1/16W
R8803	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R9889	301 225 8110	MT-GLAZE	10 JA 1/16W
R8804	301 225 1418	MT-GLAZE	47K JA 1/16W	R9890	301 225 8110	MT-GLAZE	10 JA 1/16W
R8805	301 225 1418	MT-GLAZE	47K JA 1/16W	R9891	301 225 8110	MT-GLAZE	10 JA 1/16W
R8806	301 225 1418	MT-GLAZE	47K JA 1/16W	R9892	301 224 9019	MT-GLAZE	10K JA 1/16W
R8807	301 225 1418	MT-GLAZE	47K JA 1/16W	R9893	301 224 9019	MT-GLAZE	10K JA 1/16W
R8808	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R9894	301 224 9019	MT-GLAZE	10K JA 1/16W
R8809	301 225 1418	MT-GLAZE	47K JA 1/16W	R9899	301 224 9712	MT-GLAZE	22 JA 1/16W
R8810	301 224 9415	MT-GLAZE	1M JA 1/16W	R9900	301 224 9712	MT-GLAZE	22 JA 1/16W
R8811	301 339 9515	MT-GLAZE	12.1K FA 1/10W	R9907	301 224 8814	MT-GLAZE	100 JA 1/16W
R8812	301 225 8110	MT-GLAZE	10 JA 1/16W	R9908	301 224 8814	MT-GLAZE	100 JA 1/16W
R8814	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R9914	301 224 9019	MT-GLAZE	10K JA 1/16W
R8815	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R9915	301 224 9019	MT-GLAZE	10K JA 1/16W
R8816	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R9916	301 224 9019	MT-GLAZE	10K JA 1/16W
R8821	301 225 8110	MT-GLAZE	10 JA 1/16W	R9927	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R8823	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R9928	301 224 9019	MT-GLAZE	10K JA 1/16W
R8824	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R9929	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R8825	301 225 1210	MT-GLAZE	4.7K JA 1/16W	RB312	945 037 0831	R-NETWORK	47X4 1/16W
R8841	301 341 0616	MT-GLAZE	49.9 FA 1/16W	RB313	945 037 0831	R-NETWORK	47X4 1/16W
R8842	301 341 0616	MT-GLAZE	49.9 FA 1/16W	RB316	945 037 0831	R-NETWORK	47X4 1/16W
R8843	301 341 0616	MT-GLAZE	49.9 FA 1/16W	RB318	945 037 0831	R-NETWORK	47X4 1/16W
R8844	301 341 0616	MT-GLAZE	49.9 FA 1/16W	RB319	945 037 0831	R-NETWORK	47X4 1/16W
R8845	301 225 8011	MT-GLAZE	330 JA 1/16W	RB411	945 037 0831	R-NETWORK	47X4 1/16W
R8846	301 225 8011	MT-GLAZE	330 JA 1/16W	RB412	945 037 0831	R-NETWORK	47X4 1/16W
R8850	301 258 1812	MT-GLAZE	1M FA 1/10W	RB413	945 037 0831	R-NETWORK	47X4 1/16W
R8851	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB414	945 037 0831	R-NETWORK	47X4 1/16W
R8852	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB416	945 037 0831	R-NETWORK	47X4 1/16W
R8861	301 225 8110	MT-GLAZE	10 JA 1/16W	RB417	945 037 0831	R-NETWORK	47X4 1/16W
R8864	301 225 8110	MT-GLAZE	10 JA 1/16W	RB418	945 037 0831	R-NETWORK	47X4 1/16W
R8867	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB419	945 037 0831	R-NETWORK	47X4 1/16W
R9002	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB421	945 037 0831	R-NETWORK	47X4 1/16W
R9004	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB422	945 037 0831	R-NETWORK	47X4 1/16W
R9005	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB423	945 037 0831	R-NETWORK	47X4 1/16W
R9006	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB424	945 037 0831	R-NETWORK	47X4 1/16W
R9007	301 224 9316	MT-GLAZE	1K JA 1/16W	RB426	945 037 0831	R-NETWORK	47X4 1/16W
R9008	301 224 8814	MT-GLAZE	100 JA 1/16W	RB427	945 037 0831	R-NETWORK	47X4 1/16W
R9009	301 224 8814	MT-GLAZE	100 JA 1/16W	RB428	945 037 0831	R-NETWORK	47X4 1/16W
R9010	301 224 8814	MT-GLAZE	100 JA 1/16W	RB429	945 037 0831	R-NETWORK	47X4 1/16W
R9014	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB431	945 037 0831	R-NETWORK	47X4 1/16W
R9015	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB432	945 037 0831	R-NETWORK	47X4 1/16W
R9016	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB433	945 037 0831	R-NETWORK	47X4 1/16W
R9018	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	RB434	945 037 0831	R-NETWORK	47X4 1/16W
R9019	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	RB436	945 037 0831	R-NETWORK	47X4 1/16W
R9020	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	RB437	945 037 0831	R-NETWORK	47X4 1/16W
R9021	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB501	945 037 0817	R-NETWORK	0X4 1/16W
R9022	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB503	945 037 0817	R-NETWORK	0X4 1/16W
R9023	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB504	945 037 0817	R-NETWORK	0X4 1/16W
R9024	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	RB506	945 037 0817	R-NETWORK	0X4 1/16W
R9028	301 224 9415	MT-GLAZE	1M JA 1/16W	RB531	945 037 0817	R-NETWORK	0X4 1/16W
R9029	301 224 9514	MT-GLAZE	2.2K JA 1/16W	RB533	945 037 0817	R-NETWORK	0X4 1/16W
R9035	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB534	945 037 0817	R-NETWORK	0X4 1/16W
R9036	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB536	945 037 0817	R-NETWORK	0X4 1/16W
R9305	301 225 8110	MT-GLAZE	10 JA 1/16W	RB561	945 037 0817	R-NETWORK	0X4 1/16W
R9312	301 224 8913	MT-GLAZE	100K JA 1/16W	RB563	945 037 0817	R-NETWORK	0X4 1/16W
R9317	301 225 8110	MT-GLAZE	10 JA 1/16W	RB564	945 037 0817	R-NETWORK	0X4 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
RB566	945 037 0817	R-NETWORK 0X4 1/16W	L4813	945 018 9327	INDUCTOR,1000 OHM
RB8001	945 049 0690	R-NETWORK 33X4 1/16W	L4814	945 018 9327	INDUCTOR,1000 OHM
RB8002	945 049 0690	R-NETWORK 33X4 1/16W	L501	652 002 8500	INDUCTOR 330OHM, P
RB8003	945 049 0690	R-NETWORK 33X4 1/16W	L502	652 002 8500	INDUCTOR 330OHM, P
RB8004	945 049 0690	R-NETWORK 33X4 1/16W	L531	652 002 8500	INDUCTOR 330OHM, P
RB8006	945 049 0690	R-NETWORK 33X4 1/16W	L532	652 002 8500	INDUCTOR 330OHM, P
RB8007	945 049 0690	R-NETWORK 33X4 1/16W	L5602	945 040 6455	INDUCTOR,4.7U M
RB8008	945 049 0690	R-NETWORK 33X4 1/16W	L5606	652 002 8500	INDUCTOR 330OHM, P
RB8801	945 033 1443	R-NETWORK 4.7KX4 1/16W	L5608	652 002 8500	INDUCTOR 330OHM, P
RB8802	945 033 1443	R-NETWORK 4.7KX4 1/16W	L5609	652 002 8500	INDUCTOR 330OHM, P
RB8803	945 033 1443	R-NETWORK 4.7KX4 1/16W	L561	652 002 8500	INDUCTOR 330OHM, P
RB8804	945 033 1443	R-NETWORK 4.7KX4 1/16W	L5611	652 002 8500	INDUCTOR 330OHM, P
RB9881	945 028 0697	R-NETWORK 100X4 1/16W	L562	652 002 8500	INDUCTOR 330OHM, P
COIL			L5701	652 002 8500	INDUCTOR 330OHM, P
L003	652 002 8500	INDUCTOR 330OHM, P	L5703	652 002 8500	INDUCTOR 330OHM, P
L011	945 062 2855	INDUCTOR,33U M	L5721	945 086 5368	IMPEDANCE,220 OHM P
	652 003 6819	INDUCTOR ,33U, M	L5802	652 002 8500	INDUCTOR 330OHM, P
L012	945 062 2855	INDUCTOR,33U M	L5822	652 002 8500	INDUCTOR 330OHM, P
	652 003 6819	INDUCTOR ,33U, M	L5825	652 002 8500	INDUCTOR 330OHM, P
L1002	945 086 7577	FILTER,EMI 400MHZ	L5826	652 002 8500	INDUCTOR 330OHM, P
L1012	945 086 7577	FILTER,EMI 400MHZ	L5827	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L1022	945 086 7577	FILTER,EMI 400MHZ	L5832	945 086 5368	IMPEDANCE,220 OHM P
L1051	945 086 7577	FILTER,EMI 400MHZ	L5842	945 086 5368	IMPEDANCE,220 OHM P
L1053	945 032 8344	INDUCTOR,39U J	L5848	652 002 8500	INDUCTOR 330OHM, P
L1061	945 086 7577	FILTER,EMI 400MHZ	L5862	652 002 8500	INDUCTOR 330OHM, P
L1071	945 086 7577	FILTER,EMI 400MHZ	L5867	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L2891	945 086 5368	IMPEDANCE,220 OHM P	L5868	652 002 8500	INDUCTOR 330OHM, P
L2892	945 018 9327	INDUCTOR,1000 OHM	L7811	645 104 1159	INDUCTOR,15U M
L2893	945 018 9327	INDUCTOR,1000 OHM	L7861	645 104 1159	INDUCTOR,15U M
L2894	945 086 6037	IMPEDANCE,330 OHM P	L8001	945 086 6600	IMPEDANCE,220 OHM P
L2895	945 086 6037	IMPEDANCE,330 OHM P	L8002	945 086 6600	IMPEDANCE,220 OHM P
L2896	945 086 6037	IMPEDANCE,330 OHM P	L8003	945 086 6600	IMPEDANCE,220 OHM P
L2897	945 086 6037	IMPEDANCE,330 OHM P	L8004	945 086 6600	IMPEDANCE,220 OHM P
L2898	945 086 6037	IMPEDANCE,330 OHM P	L8006	945 086 6600	IMPEDANCE,220 OHM P
L2899	945 018 9327	INDUCTOR,1000 OHM	L8007	945 086 6600	IMPEDANCE,220 OHM P
L301	945 086 5368	IMPEDANCE,220 OHM P	L8010	652 003 6499	INDUCTOR ,90 OHM
L302	945 086 5368	IMPEDANCE,220 OHM P	L8011	652 003 6499	INDUCTOR ,90 OHM
L303	945 086 5368	IMPEDANCE,220 OHM P	L8012	652 003 6499	INDUCTOR ,90 OHM
L304	945 086 5368	IMPEDANCE,220 OHM P	L8013	652 003 6499	INDUCTOR ,90 OHM
L305	945 086 5368	IMPEDANCE,220 OHM P	L8020	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
L306	945 086 5368	IMPEDANCE,220 OHM P	L8801	945 068 8318	FILTER,EMI 100MHZ
L307	945 086 5368	IMPEDANCE,220 OHM P	L8802	945 068 8318	FILTER,EMI 100MHZ
L308	945 086 5368	IMPEDANCE,220 OHM P	L8810	652 002 8500	INDUCTOR 330OHM, P
L309	945 086 5368	IMPEDANCE,220 OHM P	L8835	645 100 9340	IMPEDANCE,120 OHM P
L311	945 086 5368	IMPEDANCE,220 OHM P	L8836	645 100 9340	IMPEDANCE,120 OHM P
L312	945 086 5368	IMPEDANCE,220 OHM P	DIODE		
L313	945 086 5368	IMPEDANCE,220 OHM P	D001	307 235 0816	DIODE 1SS387 TPL3
L314	945 086 5368	IMPEDANCE,220 OHM P		307 210 1923	DIODE 1SS400 TE-61
L3501	652 002 8500	INDUCTOR 330OHM, P	D002	307 235 0816	DIODE 1SS387 TPL3
L3531	652 002 8500	INDUCTOR 330OHM, P		307 210 1923	DIODE 1SS400 TE-61
L3534	945 041 2210	INDUCTOR,0.12U K	D1001	307 209 1214	ZD UDZS-TE-176.2B
L3561	652 002 8500	INDUCTOR 330OHM, P		307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
L3620	945 086 5368	IMPEDANCE,220 OHM P		408 063 7507	ZENER DIODE MM3Z6V2B
L3621	945 086 5368	IMPEDANCE,220 OHM P	D1002	307 209 1214	ZD UDZS-TE-176.2B
L3622	945 086 5368	IMPEDANCE,220 OHM P		307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
L3624	945 086 5368	IMPEDANCE,220 OHM P		408 063 7507	ZENER DIODE MM3Z6V2B
L3626	945 086 5368	IMPEDANCE,220 OHM P	D1091	307 235 0816	DIODE 1SS387 TPL3
L3627	945 086 5368	IMPEDANCE,220 OHM P		307 210 1923	DIODE 1SS400 TE-61
L3630	945 086 5368	IMPEDANCE,220 OHM P	D1092	307 205 5216	DIODE RB521S-30-TE61
L3631	945 086 5368	IMPEDANCE,220 OHM P	D2891	307 209 1214	ZD UDZS-TE-176.2B
L3632	945 086 5368	IMPEDANCE,220 OHM P		307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
L3634	945 086 5368	IMPEDANCE,220 OHM P		408 063 7507	ZENER DIODE MM3Z6V2B
L3635	945 086 5368	IMPEDANCE,220 OHM P	D2892	307 209 1214	ZD UDZS-TE-176.2B
L3636	945 086 5368	IMPEDANCE,220 OHM P		307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
L3637	945 086 5368	IMPEDANCE,220 OHM P		408 063 7507	ZENER DIODE MM3Z6V2B
L402	652 002 8500	INDUCTOR 330OHM, P	D2893	307 209 1214	ZD UDZS-TE-176.2B
L4809	945 018 9327	INDUCTOR,1000 OHM		307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
L4810	945 018 9327	INDUCTOR,1000 OHM		408 063 7507	ZENER DIODE MM3Z6V2B
L4811	945 018 9327	INDUCTOR,1000 OHM	D2894	307 209 1214	ZD UDZS-TE-176.2B
L4812	945 086 5368	IMPEDANCE,220 OHM P		307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
	408 063 7507	ZENER DIODE MM3Z6V2B	D6835	408 068 5201	LED KPTB-1612ESGC
D3051	307 235 0816	DIODE 1SS387 TPL3	D6841	307 209 1214	ZD UDZS-TE-176.2B
	307 210 1923	DIODE 1SS400 TE-61		307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D3601	307 235 0816	DIODE 1SS387 TPL3		408 063 7507	ZENER DIODE MM3Z6V2B
	307 210 1923	DIODE 1SS400 TE-61	D6842	307 209 1214	ZD UDZS-TE-176.2B
D3613	307 235 0816	DIODE 1SS387 TPL3		307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 210 1923	DIODE 1SS400 TE-61		408 063 7507	ZENER DIODE MM3Z6V2B
D3614	307 235 0816	DIODE 1SS387 TPL3	D6845	307 209 1214	ZD UDZS-TE-176.2B
	307 210 1923	DIODE 1SS400 TE-61		307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D3617	307 235 0816	DIODE 1SS387 TPL3		408 063 7507	ZENER DIODE MM3Z6V2B
	307 210 1923	DIODE 1SS400 TE-61	D6846	307 209 1214	ZD UDZS-TE-176.2B
D3621	307 235 0816	DIODE 1SS387 TPL3		307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 210 1923	DIODE 1SS400 TE-61		408 063 7507	ZENER DIODE MM3Z6V2B
D3622	307 235 0816	DIODE 1SS387 TPL3	D6848	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61		307 210 1923	DIODE 1SS400 TE-61
D3623	307 235 0816	DIODE 1SS387 TPL3	D6850	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61		307 210 1923	DIODE 1SS400 TE-61
D3626	307 235 0816	DIODE 1SS387 TPL3	D6851	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61		307 210 1923	DIODE 1SS400 TE-61
D3627	307 235 0816	DIODE 1SS387 TPL3	D6852	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61		307 210 1923	DIODE 1SS400 TE-61
D3636	307 235 0816	DIODE 1SS387 TPL3	D6853	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61		307 210 1923	DIODE 1SS400 TE-61
D3637	307 235 0816	DIODE 1SS387 TPL3	D6877	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61		307 210 1923	DIODE 1SS400 TE-61
D3802	307 210 5416	DIODE RB551V-30-TE-17	D7801	307 224 6515	ZD UDZS4.7B-TE-17
D4001	307 235 0816	DIODE 1SS387 TPL3	D7802	307 224 6515	ZD UDZS4.7B-TE-17
	307 210 1923	DIODE 1SS400 TE-61	D7803	307 210 5416	DIODE RB551V-30-TE-17
D4811	307 209 1214	ZD UDZS-TE-176.2B	D7804	307 210 1111	ZENER DIODE UDZS7.5BTE-17
	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3	D7812	407 272 1415	DIODE SS3P4-M3/84A
	408 063 7507	ZENER DIODE MM3Z6V2B	D7862	407 272 1415	DIODE SS3P4-M3/84A
D4812	307 209 1214	ZD UDZS-TE-176.2B	D8091	407 272 1415	DIODE SS3P4-M3/84A
	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3	D8092	307 235 0816	DIODE 1SS387 TPL3
	408 063 7507	ZENER DIODE MM3Z6V2B		307 210 1923	DIODE 1SS400 TE-61
D4813	307 209 1214	ZD UDZS-TE-176.2B	D8093	307 235 0816	DIODE 1SS387 TPL3
	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		307 210 1923	DIODE 1SS400 TE-61
	408 063 7507	ZENER DIODE MM3Z6V2B	D8094	307 235 0816	DIODE 1SS387 TPL3
D4816	307 209 1214	ZD UDZS-TE-176.2B		307 210 1923	DIODE 1SS400 TE-61
	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3	MISCELLANEOUS		
	408 063 7507	ZENER DIODE MM3Z6V2B	FB3620	945 086 6037	IMPEDANCE,330 OHM P
D5002	307 210 5416	DIODE RB551V-30-TE-17	FB3621	945 086 6037	IMPEDANCE,330 OHM P
D5021	307 235 0816	DIODE 1SS387 TPL3	FB3622	945 086 6037	IMPEDANCE,330 OHM P
	307 210 1923	DIODE 1SS400 TE-61	FB3624	945 086 6037	IMPEDANCE,330 OHM P
D5061	307 235 0816	DIODE 1SS387 TPL3	FB3626	945 086 6037	IMPEDANCE,330 OHM P
	307 210 1923	DIODE 1SS400 TE-61	FB3627	945 086 6037	IMPEDANCE,330 OHM P
D5062	307 235 0816	DIODE 1SS387 TPL3	FB3634	945 086 6037	IMPEDANCE,330 OHM P
	307 210 1923	DIODE 1SS400 TE-61	K10A	952 001 8601	SOCKET,D-SUB 15P
D5302	307 210 5416	DIODE RB551V-30-TE-17	K10B	952 001 8571	SOCKET,D-SUB 15P
D5602	307 210 5416	DIODE RB551V-30-TE-17	K30B	652 002 6704	JACK,PHONE D3.6
D5603	307 210 5416	DIODE RB551V-30-TE-17	K8001	645 095 3637	SOCKET,IF(HDMI) 19P
D5622	307 235 0816	DIODE 1SS387 TPL3		652 003 2194	SOCKET,HDMI 19P
	307 210 1923	DIODE 1SS400 TE-61		652 003 4945	SOCKET,HDMI 19P
D5623	307 235 0816	DIODE 1SS387 TPL3	K8801	645 093 6760	TRANS,PULSE
	307 210 1923	DIODE 1SS400 TE-61		652 003 2743	TRANS,PULSE
D5624	307 235 0816	DIODE 1SS387 TPL3	SC1001	945 076 3503	SURGE-ABSORBER
	307 210 1923	DIODE 1SS400 TE-61	SC1011	945 076 3503	SURGE-ABSORBER
D591	307 235 0816	DIODE 1SS387 TPL3	SC1021	945 076 3503	SURGE-ABSORBER
	307 210 1923	DIODE 1SS400 TE-61	SC1030	945 076 3503	SURGE-ABSORBER
D592	307 235 0816	DIODE 1SS387 TPL3	SC1041	945 076 3503	SURGE-ABSORBER
	307 210 1923	DIODE 1SS400 TE-61	SC1051	945 076 3503	SURGE-ABSORBER
D6801	307 209 1214	ZD UDZS-TE-176.2B	SC1061	945 076 3503	SURGE-ABSORBER
	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3	SC1071	945 076 3503	SURGE-ABSORBER
	408 063 7507	ZENER DIODE MM3Z6V2B	SC1081	945 076 3503	SURGE-ABSORBER
D6802	307 209 1214	ZD UDZS-TE-176.2B	SC1091	945 076 3503	SURGE-ABSORBER
	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3	SC3001	945 076 3503	SURGE-ABSORBER
	408 063 7507	ZENER DIODE MM3Z6V2B	SC3011	945 076 3503	SURGE-ABSORBER
D6803	307 209 1214	ZD UDZS-TE-176.2B	SC3021	945 076 3503	SURGE-ABSORBER
	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3	SC3031	945 076 3503	SURGE-ABSORBER
	408 063 7507	ZENER DIODE MM3Z6V2B	SC3051	945 076 3503	SURGE-ABSORBER
D6831	408 068 5508	LED KPT-2012YC	SC3061	945 076 3503	SURGE-ABSORBER
D6833	408 071 8503	LED KPT-2012SRC-PRV			

-98-

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description
C651	304 108 0901	ELECT	220U M	25V	L614	910 229 3532	CORE
C653	303 370 1510	CERAMIC	0.1U K	50V	L631	952 001 0131	CORE,PIPE
C661	403 468 6219	ELECT	1500U M	25V	L661	910 229 3532	CORE
C662	304 091 2609	CERAMIC	0.1U K	50V	L662	910 229 3532	CORE
	303 367 0410	CERAMIC	0.1U K	50V	L663	652 002 8500	INDUCTOR 330OHM, P
C663	304 091 2609	CERAMIC	0.1U K	50V	DIODE		
	303 367 0410	CERAMIC	0.1U K	50V	D611	307 253 7405	DIODE FMXA-1106S
C664	303 429 6708	ELECT	1500U M	10V	D611D	645 098 1715	CORE,FERRITE
C665	303 409 9913	ELECT	470U M	16V	D611E	645 098 1715	CORE,FERRITE
C666	303 392 0733	ELECT	1000U M	25V	D612	307 149 0810	DIODE 1SS355-TE-17
C671	304 091 2609	CERAMIC	0.1U K	50V		408 062 7201	DIODE 1SS355
C674	403 477 6514	MT-POLYEST	0.01U J	630V		307 163 0414	DIODE 1SS352-(TPH3)
△ C691	304 104 9502	CERAMIC	1500P M	250V	D613	307 149 0810	DIODE 1SS355-TE-17
△ C692	304 104 9502	CERAMIC	1500P M	250V		408 062 7201	DIODE 1SS355
△ C693	304 073 4508	CERAMIC	2200P M	250V		307 163 0414	DIODE 1SS352-(TPH3)
RESISTOR					D614	408 065 7901	DIODE ZRM11C
R611	401 353 0311	MT-GLAZE	430K JA	1/3W		307 009 6924	DIODE RM11CV1
R612	401 353 0212	MT-GLAZE	360K JA	1/3W	D615	307 007 7715	DIODE EU2A-V1
R613	301 256 6314	MT-GLAZE	47K JA	1/10W	D617	408 065 7901	DIODE ZRM11C
R614	302 106 5508	RESISTER	0.075 KB	5W		307 009 6924	DIODE RM11CV1
R615	402 122 0409	MT-GLAZE	680K DD	1/4W	D631	307 149 0810	DIODE 1SS355-TE-17
R616	402 122 0409	MT-GLAZE	680K DD	1/4W		408 062 7201	DIODE 1SS355
R617	301 256 6314	MT-GLAZE	47K JA	1/10W		307 163 0414	DIODE 1SS352-(TPH3)
R618	301 150 5918	MT-GLAZE	10K JA	1/10W	D632	307 247 8827	DIODE RF101L2S
R619	301 150 6014	MT-GLAZE	0.000 ZA	1/10W	D633	307 146 8116	DIODE EG01C
R620	301 256 5614	MT-GLAZE	47 JA	1/10W	D651	307 247 8827	DIODE RF101L2S
R621	301 326 1812	MT-GLAZE	8.2K DA	1/10W	D661	407 267 3100	DIODE SG10SC9M
R622	301 309 8517	MT-GLAZE	330 DA	1/10W		407 269 8400	DIODE FMEN-210A
R623	401 360 8010	MT-GLAZE	470 DA	1/10W	D662	407 267 3001	DIODE SG10SC6M
R624	301 255 6513	MT-GLAZE	100 JA	1/10W		407 269 8509	DIODE FMW-2106
R625	301 256 5614	MT-GLAZE	47 JA	1/10W	D663	307 247 8827	DIODE RF101L2S
R626	301 150 6014	MT-GLAZE	0.000 ZA	1/10W	D664	307 210 5416	DIODE RB551V-30-TE-17
R627	301 150 5918	MT-GLAZE	10K JA	1/10W	D666	307 146 8116	DIODE EG01C
R628	301 150 5918	MT-GLAZE	10K JA	1/10W	D669	307 247 8827	DIODE RF101L2S
R629	301 255 7312	MT-GLAZE	510K JA	1/10W	DB611	307 202 7708	DIODE D10XB60
R631	301 255 7718	MT-GLAZE	11K JA	1/10W	MISCELLANEOUS		
R633	301 150 6014	MT-GLAZE	0.000 ZA	1/10W	△ F631	324 006 1305	FUSE 250V 2.5A
R634	301 256 1715	MT-GLAZE	33K JA	1/10W	△ PC661	407 265 7813	PC TLP781F(D4-GB-TP7)
R635	402 122 1802	OXIDE-MT	0.39JA	1W	△ PC663	407 265 7813	PC TLP781F(D4-GB-TP7)
R636	301 162 3018	MT-GLAZE	22K JA	1/10W	△ PC671	407 265 7813	PC TLP781F(D4-GB-TP7)
R637	301 256 1715	MT-GLAZE	33K JA	1/10W	PTH611	308 037 5501	THERMISTOR NTPDB5R0LDHBO
R639	301 277 7215	MT-GLAZE	470 JA	1/3W	PTH641	408 062 4606	TH PRF18BD471QB1RB
R640	301 150 6014	MT-GLAZE	0.000 ZA	1/10W	ZD631	307 206 5413	ZD UDZS-TE-178.2B
R641	301 150 5918	MT-GLAZE	10K JA	1/10W		408 064 1603	ZENER DIODE MM3Z8V2B
R642	301 255 9514	MT-GLAZE	220K JA	1/10W	ZD632	307 179 1214	ZENER DIODE PTZ13B-TE25
R643	301 150 5918	MT-GLAZE	10K JA	1/10W	ZD633	307 179 1214	ZENER DIODE PTZ13B-TE25
R644	301 150 5918	MT-GLAZE	10K JA	1/10W			
R651	301 150 5918	MT-GLAZE	10K JA	1/10W	A630	655 004 8936	ASSY,PWB,AC FILTER KA2JC
R652	301 292 1915	MT-GLAZE	22 FA	1/2W	CAPACITOR		
R662	301 152 3219	MT-GLAZE	330 JA	1/10W	△ C601	404 113 2904	MT-POLYEST 0.33U K 275V
R665	402 109 6806	OXIDE-MT	100KJA	2W	△ C603	304 073 5109	CERAMIC 470P K 250V
R671	301 152 3219	MT-GLAZE	330 JA	1/10W	△ C604	304 073 5109	CERAMIC 470P K 250V
R672	301 150 6212	MT-GLAZE	1K JA	1/10W	△ C605	404 113 2904	MT-POLYEST 0.33U K 275V
R673	301 264 2919	MT-GLAZE	12K FA	1/10W	RESISTOR		
R674	301 264 7518	MT-GLAZE	2.7K FA	1/10W	△ R601	301 242 4614	MT-GLAZE 560K JA 1/2W
R675	301 162 3711	MT-GLAZE	4.7K JA	1/10W	△ R602	301 242 4614	MT-GLAZE 560K JA 1/2W
R676	301 264 2810	MT-GLAZE	1.2K FA	1/10W	VARIABLE RESISTOR		
R680	301 150 6014	MT-GLAZE	0.000 ZA	1/10W	△ VA601	408 071 3102	VARISTOR S14K385E2K1
R683	301 265 0211	MT-GLAZE	390 FA	1/10W		408 072 3903	VARISTOR ERZV14D621CS
R684	301 264 9314	MT-GLAZE	3.3K FA	1/10W	COIL		
R692	301 152 3219	MT-GLAZE	330 JA	1/10W	△ L601	645 099 6825	LINE FILTER
△ RL601	645 101 0544	RELAY			△ LF601	645 093 1765	SOCKET,INLET AC 3P
TRANSFORMER					MISCELLANEOUS		
△ T651	645 097 6483	TRANS,POWER,PULSE			△ F601	323 021 7804	FUSE 250V 6.3A
COIL							
△ L611	945 081 4878	LINE FILTER					
L612	645 089 2561	INDUCTOR,700U					
L613	910 229 3532	CORE					

Electrical Parts List

Key No. Part No.		Description			Key No. Part No.		Description
	423 034 4101	FUSE	250V	6.3A			
A604	655 005 0045	ASSY,PWB,SUB POWER KA2JC					
CAPACITOR							
C7801	403 485 9910	DL-ELECT	3.3F M	2.5V			
C7802	403 485 9910	DL-ELECT	3.3F M	2.5V			
C7803	403 485 9910	DL-ELECT	3.3F M	2.5V			
C7804	403 485 9910	DL-ELECT	3.3F M	2.5V			
RESISTOR							
R7812	301 256 2613	MT-GLAZE	2.4K JA	1/10W			
R7814	301 256 2613	MT-GLAZE	2.4K JA	1/10W			
R7815	301 256 2613	MT-GLAZE	2.4K JA	1/10W			
R7856	301 256 2613	MT-GLAZE	2.4K JA	1/10W			


Electrical Parts List

Key No. Part No.		Description	Key No. Part No.		Description

Panasonic[®]

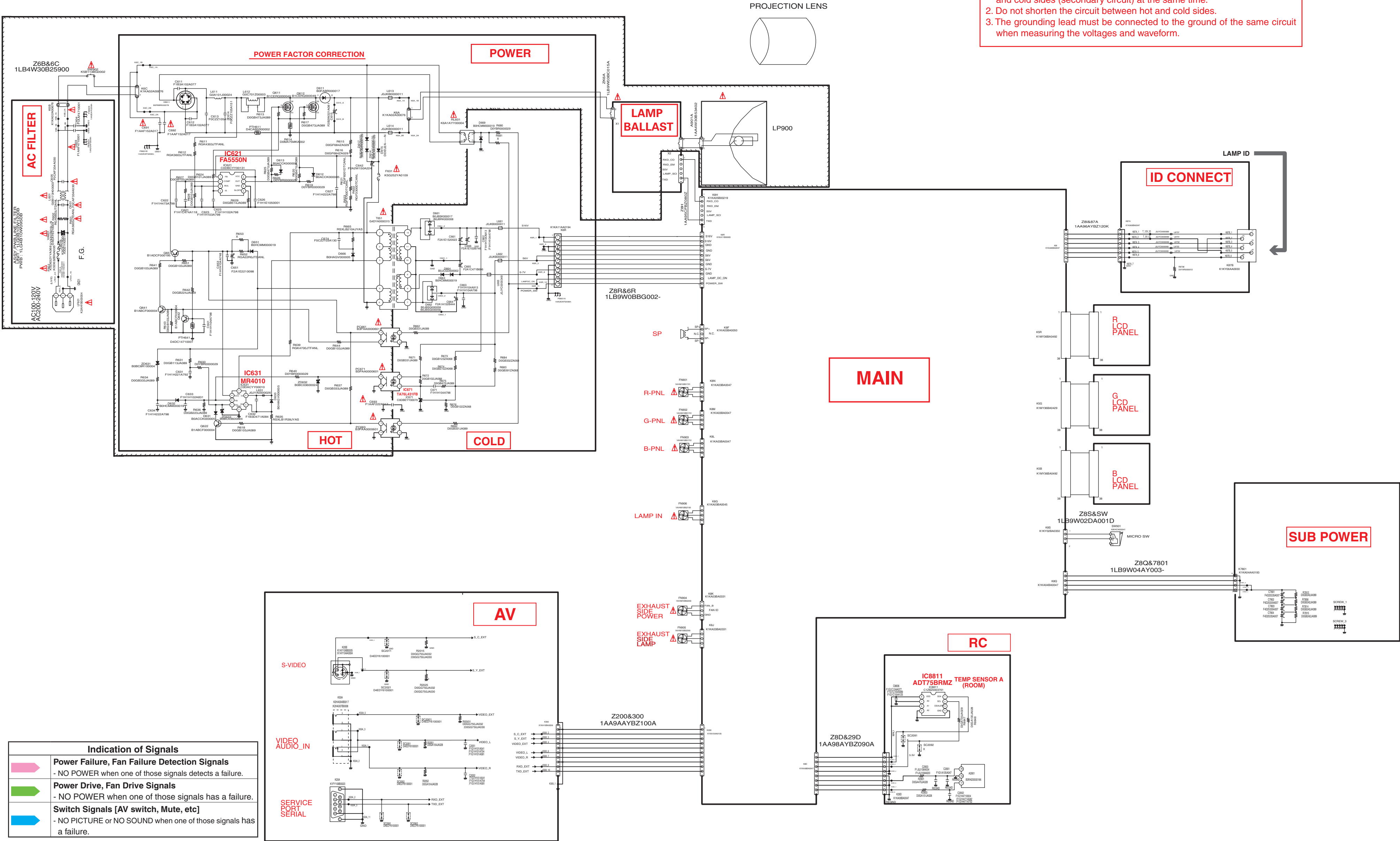
Schematic Diagrams




CAUTION

Components indicated by a mark  in this schematic diagram have the special significance in the safety. It is therefore, particularly recommended that the replacement of those parts must be made by exactly the same parts. Must be used with a specified fuse. Unauthorized substitutions may result in fire or accident.

This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing.

1. Do not touch the part on hot side (primary circuit) or both parts on the hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring the voltages and waveform.



Indication of Signals	
	Power Failure, Fan Failure Detection Signals - NO POWER when one of those signals detects a failure.
	Power Drive, Fan Drive Signals - NO POWER when one of those signals has a failure.
	Switch Signals [AV switch, Mute, etc] - NO PICTURE or NO SOUND when one of those signals has a failure.

A
B
C
D
E
F
G
H
I
J
K
L

A
B
C
D
E
F
G
H
I
J
K
L

HDMI

IC8001

IC8001
SI19127ACTU
HDMI RECEIVER
IC8001
C1AB00003679

IC301

IC8301
PCM1754DBQR

PC1
RGB/
YCbCr/
SCART

IC1051
LE24C023M

PC2
RGB-IN/
RGB-OUT

IC4001
EL5306IUZ

IC4701
TC7WT125FU

IC5301
74LVC14APW

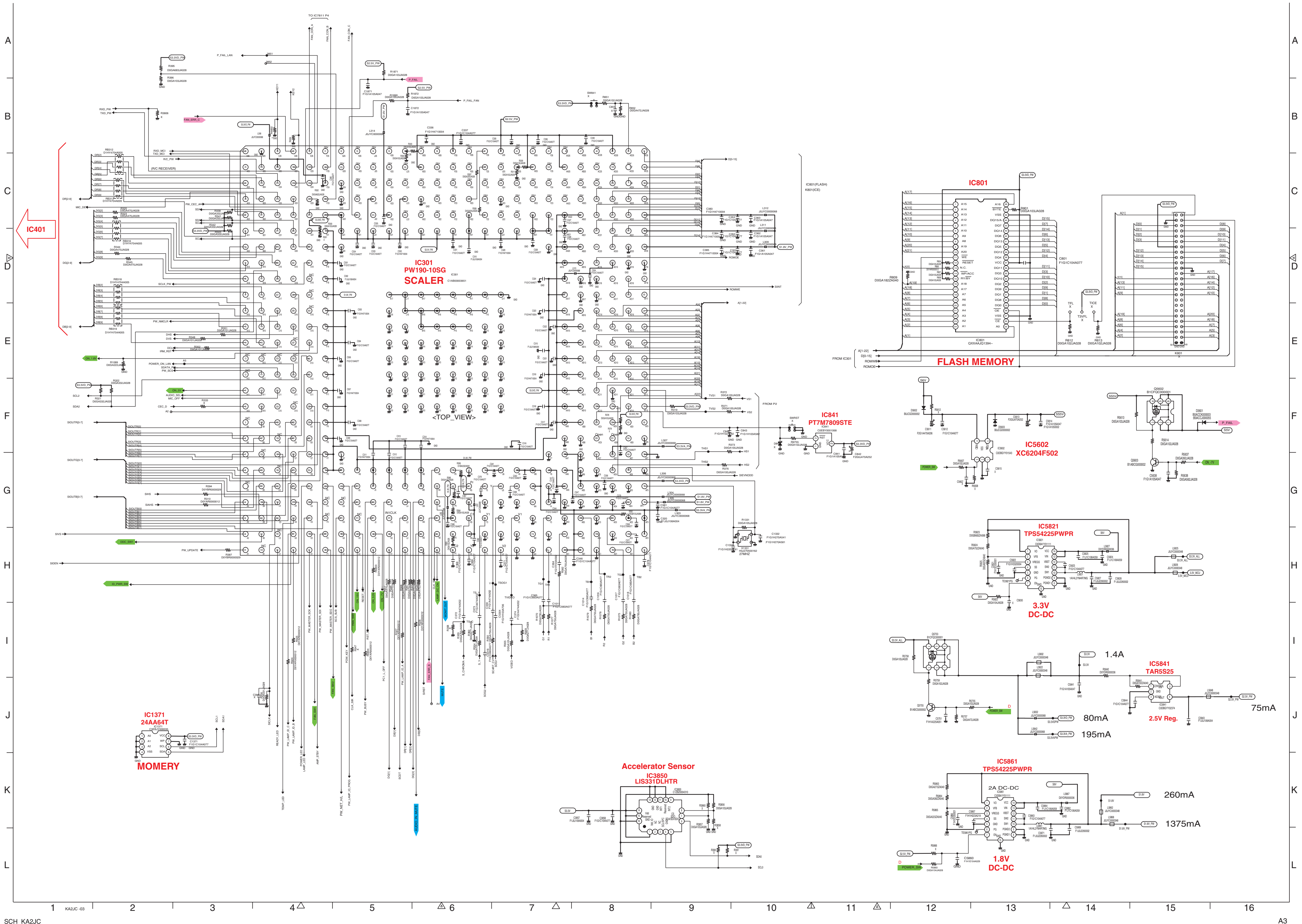
PC1
AUDIO2_IN
PC2
AUDIO1_IN
AUDIO_OUT

S-VIDEO
VIDEO AUDIO_IN
AV
"K300"

IC3801
SP3232ECY

RS-232C
DRIVER

IC301



A

B

C

D

E

F

G

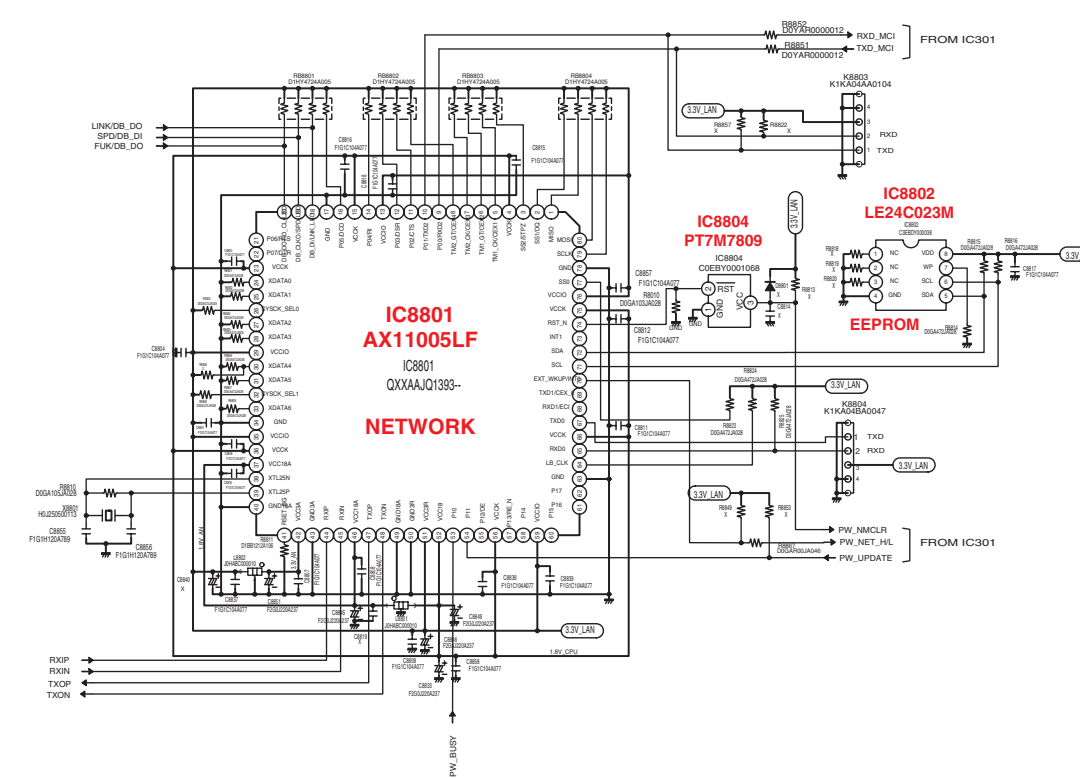
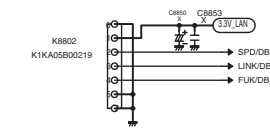
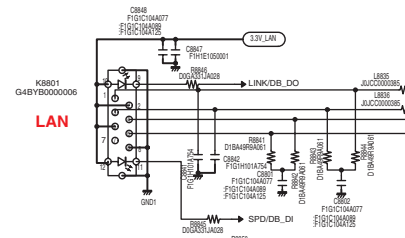
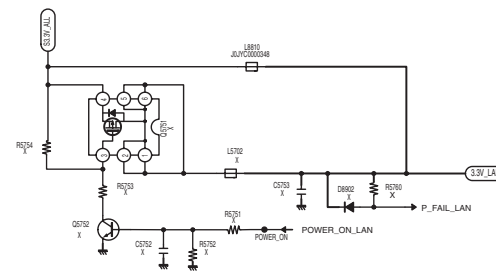
H

I

J

K

L



(BLUE)

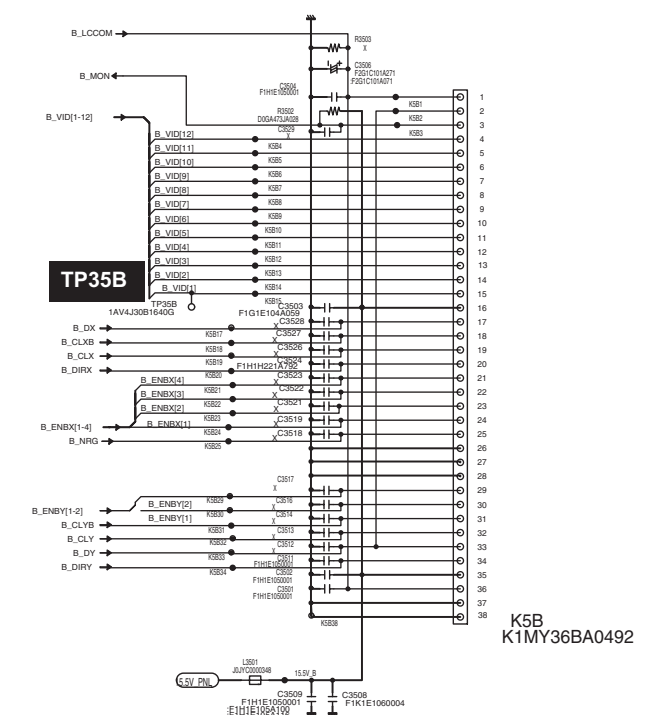
IC401

IC401

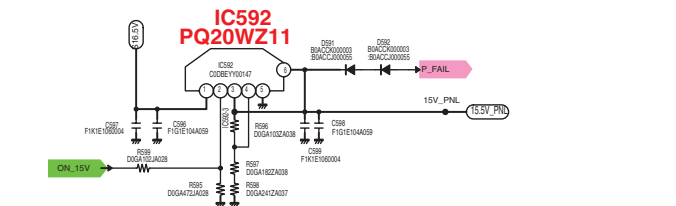
IC9001

IC501
L3E06200

B-S&H



K5B
K1MY36BA0492



(GREEN)

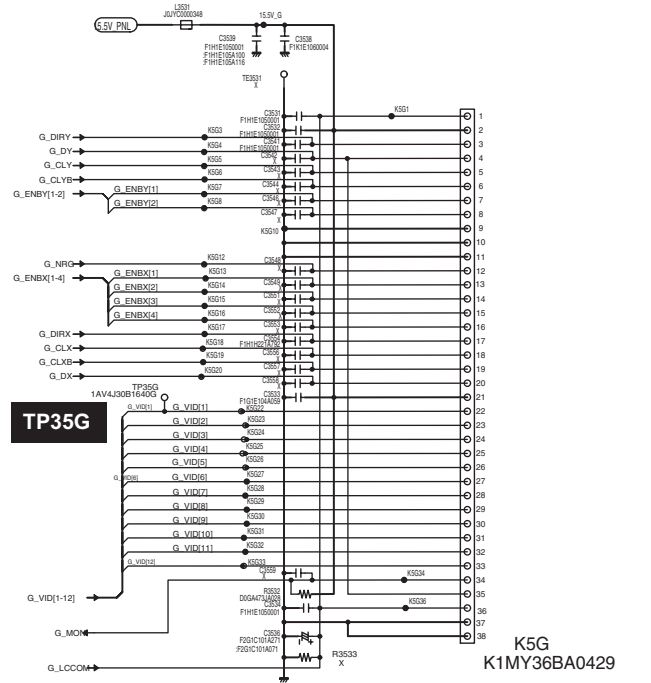
IC401

IC401

IC9001

IC561
L3E06200

G-S&H



K5G
K1MY36BA0429

(RED)

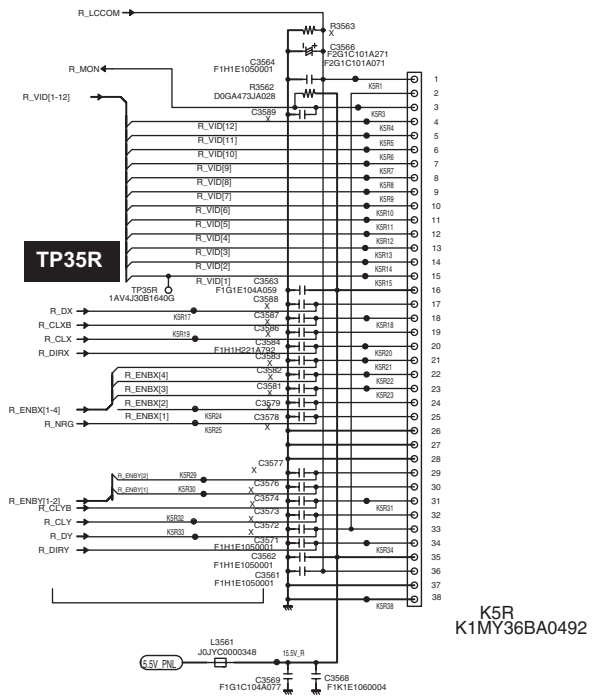
IC401

IC401

IC9001

IC531
L3E06200

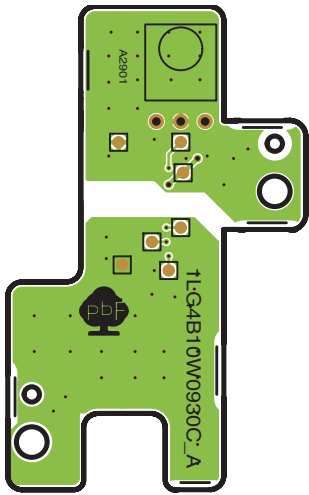
R-S&H



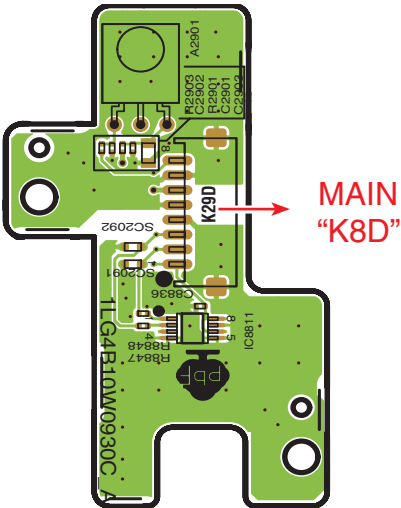
K5R
K1MY36BA0492

Printed Wiring Board Drawings

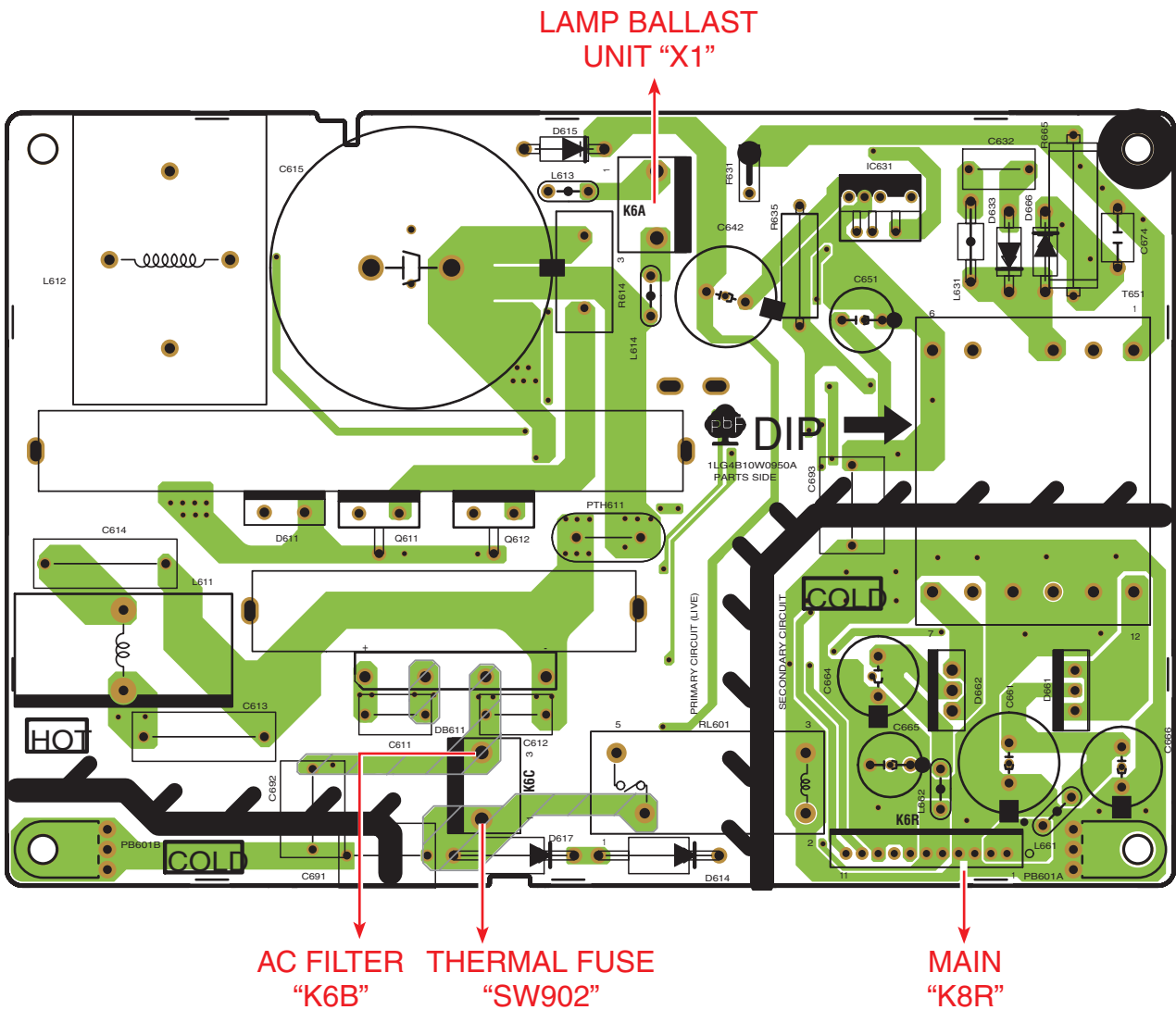
RC (SIDE:A)



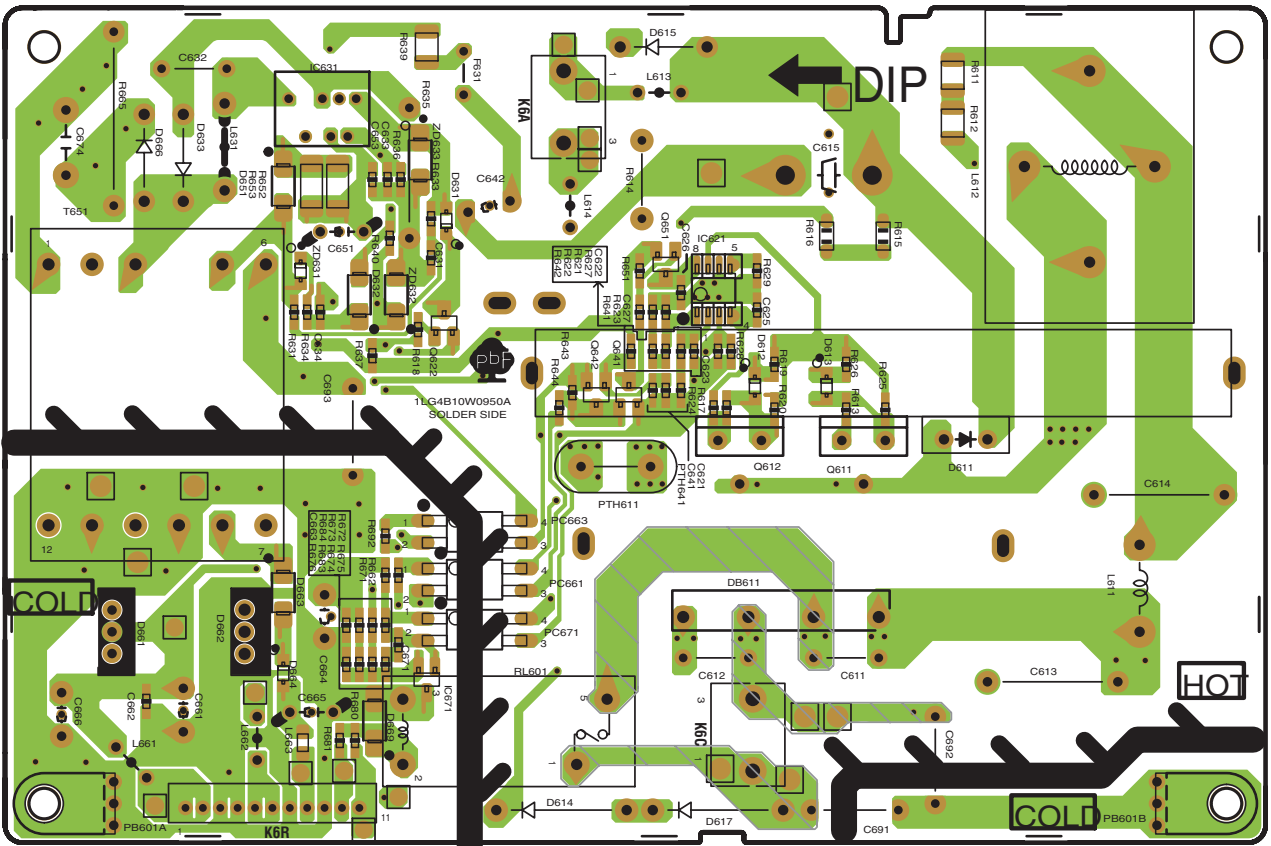
RC (SIDE:B)



POWER (SIDE:A)



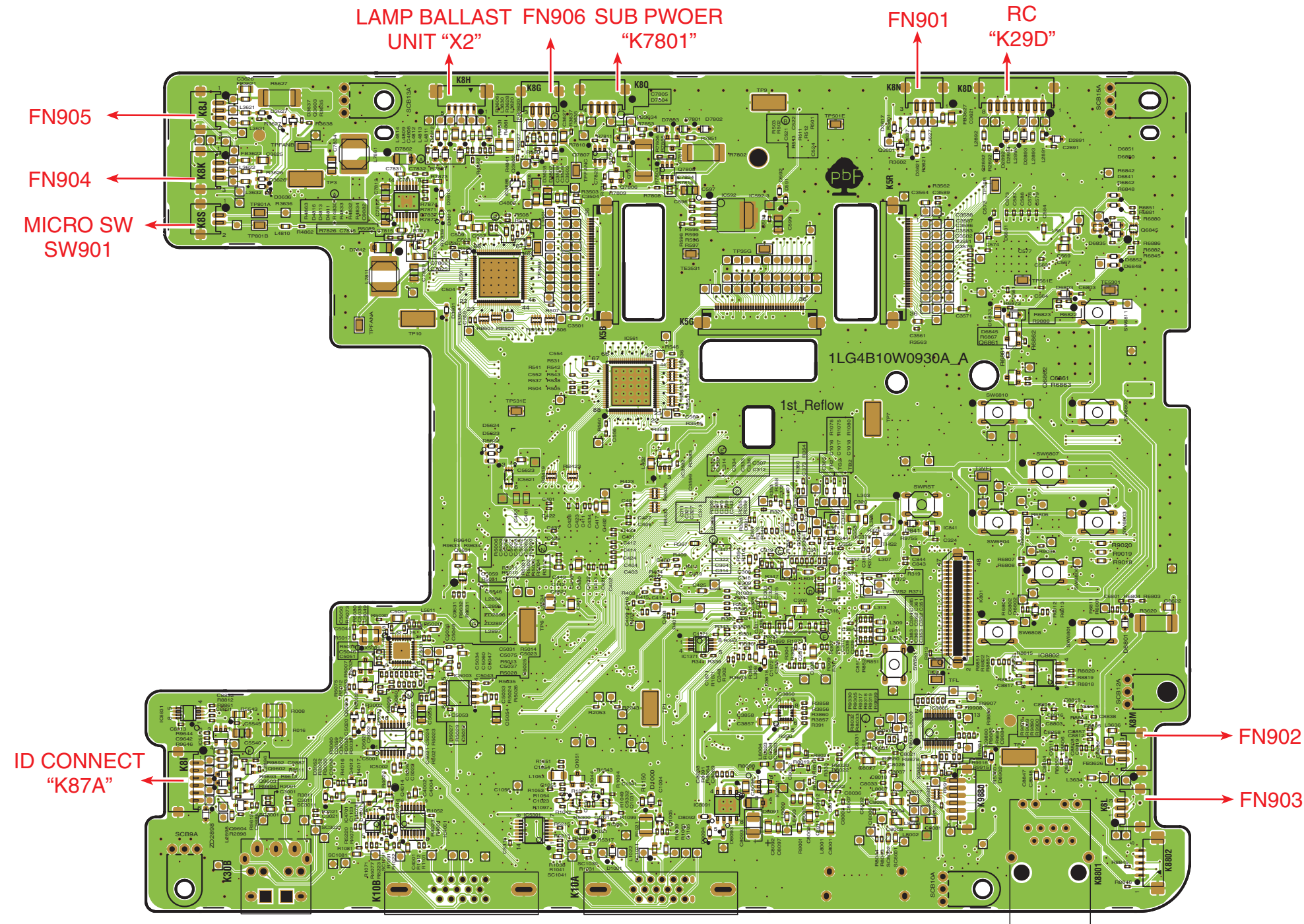
POWER (SIDE:B)



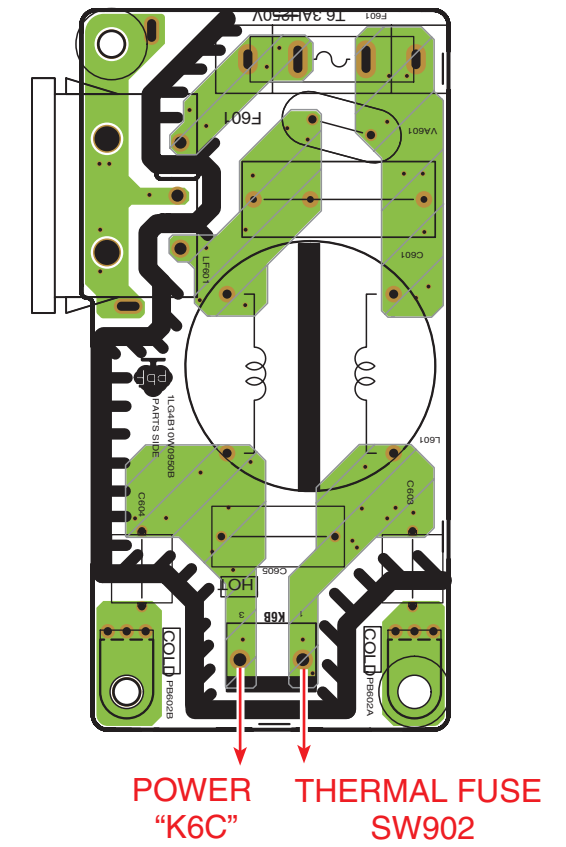
CAUTION

- This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing
1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
 2. Do not shorten the circuit between hot and cold sides.
 3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

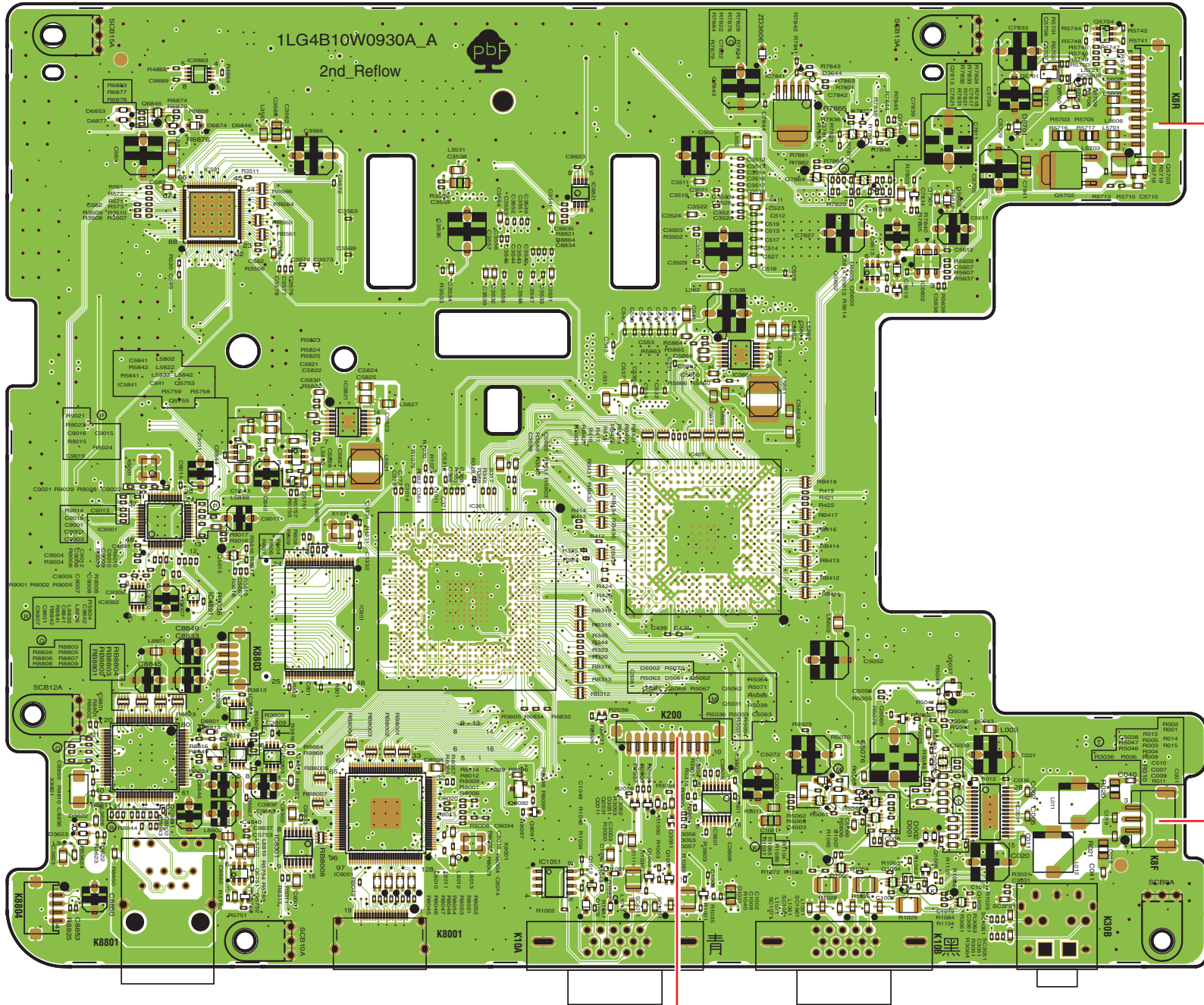
MAIN (SIDE:A)



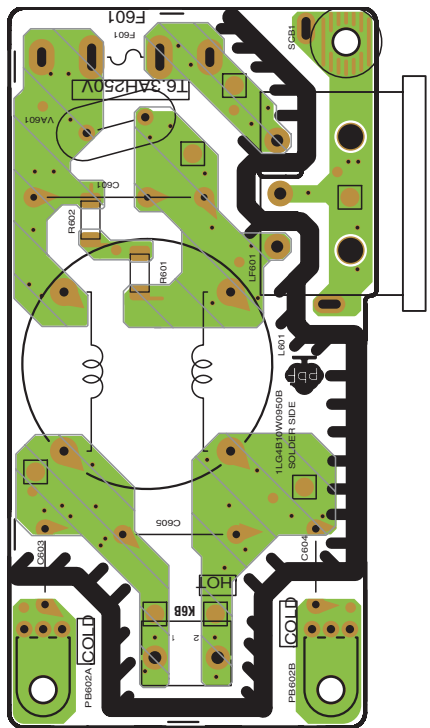
AC FILTER (SIDE:A)



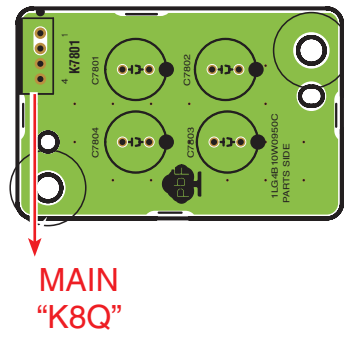
MAIN (SIDE:B)



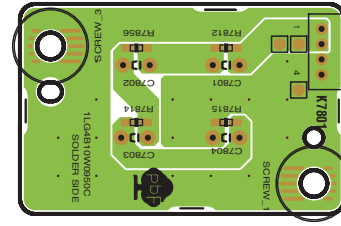
AC FILTER (SIDE:B)



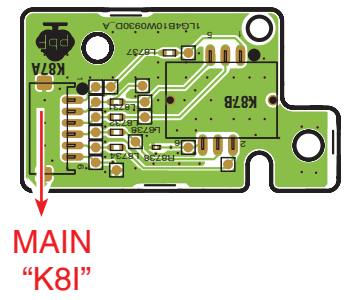
SUB POWER (SIDE:A)



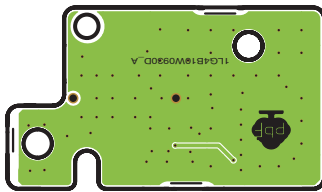
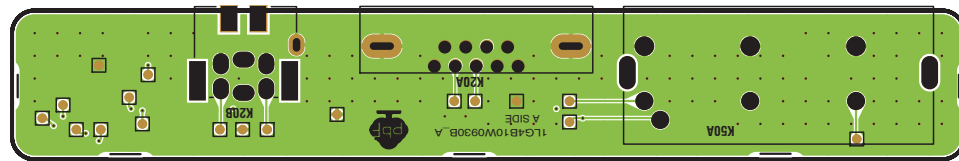
SUB POWER (SIDE:B)



ID CONNECT (SIDE:A)



ID CONNECT (SIDE:B)

**AV (SIDE:A)**

AV (SIDE:B)

